













**GEOGRAPHICAL INDEX**  
**TO THE**  
**MEMOIRS, Volumes I—LIV**  
**RECORDS, Volumes I—LXV**  
**OF THE**  
**GEOLOGICAL SURVEY OF INDIA**  
**AND**  
**GENERAL REPORTS OF THE DIRECTOR**  
**For the years 1897 to 1903.**  
  
**BY**  
**T. H. D. La Touche, M.A., F.G.S.**

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**Published by order of the Government of India.**

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**CALCUTTA: SOLD AT THE CENTRAL BOOK DEPOT, 8, HASTINGS STREET, AND AT THE  
OFFICE OF THE GEOLOGICAL SURVEY OF INDIA, 27, CHOWRINGHEE ROAD.**  
**DELHI: SOLD AT THE OFFICE OF THE MANAGER OF PUBLICATIONS,**  
**1938.**



## INTRODUCTORY NOTE.

In the Introductory Note to my 'Index to the Memoirs, Geological Survey of India' (p. ii); published in 1932, I undertook, when the time came, to explain the method of spelling Indian place-names to be adopted in this index.

So far back as the year 1856, Dr. Thomas Oldham, in his preface to the first volume of the Memoirs, drew attention to the inconvenience caused by the use, in the maps issued by the Survey of India Department, of two different systems of orthography. In those of the Great Trigonometrical Survey, the method introduced by Sir William Jones in 1788, and described by him in the first paper read before the newly-founded Asiatic Society of Bengal.\* was employed, while in the Revenue Survey maps, issued, as Dr. Oldham remarks, *from the same Office*, the method used was that of Dr. J. B. Gilchrist, published in 1804.† He cites Katak=Cuttack and Radakhol=Rehrakhol (Rairakhol), as examples of the difference in nomenclature.

A third system, consisting in the transliteration of Indian words, was devised by Sir W. W. Hunter about the year 1870, and in that year was formally adopted by the Government of India, and ordered to be used in all official publications. This method was explained by Hunter in the preface to the first edition of his 'Imperial Gazetteer of India' (pp. xx-xxv), published in 1881. There is, from the point of view of pronunciation, one rather serious defect in the system,—one which is a constant pitfall to those unacquainted with the Indian languages—, viz., that the short *a*, the most common of vowels, has more than one sound-value. Thus, the *a* in Dagshai is not pronounced as in 'back', but as *u* in 'cup' (Dugshai); while that in Garh has not the sound of *a* in 'lark' but of *u* in 'lurk' (Gurh). The double

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\* A dissertation on the orthography of Asiatick words in Roman letters. *Asiatick Researches*, Vol. I, pp. 1-56.

† The Hindu-Roman orthoepigraphical ultimatum, or, a systematic discriminative view of Oriental and Occidental visible sounds. 8vo., Calcutta, 1804. 2nd Edition, London, 1820.

vowels, *oo* and *ee* of the older systems are replaced by *ū* and *i*, the *pronunciation* remaining unchanged (the *ū* never has the *y* sound of the English *ū*, as in 'mute'). Altogether, the older methods of spelling, uncouth as they may appear to modern eyes, conform more nearly to the Indian pronunciation than Hunter's which is really more concerned with the written than with the spoken word.

An attempt was made by the Geological Survey to carry out the instructions of Government, Murree in the 'Panjab' appearing as Mari, Burma as Barma, Kurnool as Karnul, and a town in the 'Jabalpur' district, named after Col. Sleeman, as Slimanabad! But it was found impracticable to adhere strictly to the system. For, as Dr. Oldham had pointed out, the officers of the Survey must, in describing their work, refer to localities by the names as shown on the maps actually used by them, in order that the results of their investigations might be intelligible to the public.

At the present time, the Survey of India is engaged on the production of a series of excellent topographical maps, ranging upwards in scale from 16 miles to the inch to one mile, of which the quarter-inch sheets cover one degree of latitude and longitude respectively, and are therefore known as 'degree sheets'. This series, when complete, will cover the whole of India and the adjacent countries.

On these maps, while the spelling of certain names, like Calcutta, Cawnpore, Jubbulpore, etc., established by long usage, is retained, that of the majority conforms in the main to the principles laid down by Hunter, but is not always consistent. For example, the name of a certain gorge in the Sandur State, spelled Ubbalagandi by R. B. Foote, and Ablagundi by Hunter in the Imperial Gazetteer, is shown as Oblagandi on the one-inch degree sheet 57 A/12; while the very same sheet gives the older form of the name, Ubbalagandi, as that of a village in the Bellary district, a few miles only to the east of the gorge. In some cases, also, the orthography of the degree maps varies in different editions of the same sheet: thus, in the first edition of sheet 78A, issued in 1921, the name of a village in Sikkim is spelled Chungtang, but appears as Tsun-

tang in that of 1923; and on the adjoining sheet 77D, a lake, called Gyaamtshona in 1921, is altered to Gayamthasana in 1923.

In deciding on the orthography to be employed in the present index, it might have seemed that the most natural plan would be to follow that of the degree sheets; but, apart from the fact that the issue of the larger scale maps of this series is far from complete, and that it will doubtless be found, when they do appear, that many alterations have been made in the spelling of the names, as compared with the older maps; also that some of the quarter-inch sheets, the only ones of the series available, are merely reprints of the corresponding parts of the 'Atlas of India', such a course would have entailed over-burdening the index with cross-references; these would have been required for a large proportion of the localities mentioned in the earlier volumes of the Memoirs, especially those dealing with the Madras Presidency.

For these reasons, it seemed that the most practical method would be to keep to the spelling actually used in the publications of the Survey, and to insert cross-references only when a name has been spelled in different ways by two or more authors, or, as sometimes happens, by the same author at different times. Where, however, the spelling of a name on the new 'degree' maps differs appreciably from the older form, especially as regards the initial letters, it is given in brackets; and, for the convenience of those who may have occasion to revisit an area that has been previously surveyed, these synonyms have been collected together in an appendix; but it has not been felt necessary to do this in every case, where the difference merely consists in the use, by the older writers, of the vowels *u* for *a*, *ee* for *i*, and *oo* for *ū*.

It must be confessed that these older modes of spelling, representing, as they do, the correct pronunciation of the names more nearly than the later forms, are more useful to those who, like the geologist, have to find their way from place to place, often under the guidance of an illiterate peasant. Take, for instance, the name 'Karambiyam', that of a village in the Trichinopoly district, no doubt correctly transliterated on sheet 58 M/4 of the one-inch degree maps. A request to be directed to the place, if the name were pronounced as written, would probably be met



with a stare of incomprehension. But 'Kurribiem' would be readily understood.

The information contained in the index is arranged in the following manner:—

(i) The name of the locality, followed, if necessary, by its later form, as explained above. Double names, such as Buri Khel and Buri Mai, will be found under the first part of the name, in this case preceding Buriadi. Hyphenated names are treated as single words.

(ii) The district or State,—or, when the place happens to be the head-quarters of a district—, the Province, in which the locality is situated. A list of the districts and States mentioned in the index, with the provinces to which they belong, is given below.

(iii) The number of the sheet of the one-inch series of degree maps on which the name of the locality appears, or should appear when this series is complete.

(iv) The co-ordinates of latitude and longitude of the locality. Since all are situated to the north of the equator and east of Greenwich, the letters N. and E. are omitted. The measurements are taken from the one-inch degree sheets, where these are available; otherwise from the quarter-inch and half-inch sheets. As these maps give the corrected values for longitude, according to the latest determination of the longitude of Madras, the figures require a correction of  $+2' 30''$  in order to agree with co-ordinates measured on the one-inch Revenue Survey maps, and of approximately  $+3' 30''$  in respect of the quarter-inch sheets of the 'Atlas of India'.

For the countries bordering on the north-west frontier of India, Baluchistan and Afghanistan, portions only of which have been as yet published in the degree series, I have used the sheets of the North-West Trans-Frontier Survey; and for Yunnan the relevant sheets of the North-East and South-East Frontier Surveys. All of these are on the quarter-inch scale. Sketch-maps, showing the numbering of the sheets of these series, with the numbers of the corresponding degree maps, accompany this Note (Plates 1 and 2). The correction for longitude applicable to these maps is  $+2' 30''$ ;

and the same correction is necessary in respect to sheets 93B, 93D and 93G of the degree series in Burma, which, as hitherto issued, are uncorrected.

For Persia, the name of which was changed to Iran when this work was too far advanced for the alteration to be made, maps of the degree series, covering nearly the whole of the areas described by officers of the Geological Survey, are available on the quarter-inch scale.

Whenever I have been unable, either to identify a village on the degree maps because, though shown on the old maps, its site has been deserted in course of time; or to verify a position given by an author, because it has been derived from some map to which I have not had access, the co-ordinates are printed in italics.

The position given for a river is that of its name on the degree sheets; for mountain ranges that of the highest point on the range.

(v) A very brief indication of the subject mentioned in connection with a locality, such as the occurrence in its neighbourhood of a mineral, a geological formation, etc.

(vi) The initials of the author by whom the locality is mentioned, according to the list of abbreviations given below. In the case of dual authorship, the initials of the senior author only are given. Complete lists of the authors concerned will be found in the indexes to the Memoirs and Records respectively.

(vii) Reference to the volume and page of the Memoirs (**M**) Records (**R**) and General Reports of the Director for the years 1897 to 1903 inclusive (**A. R.** with date of publication), in which the locality is mentioned.

(viii) If required, a cross-reference, denoted by the sign =, to variants of the name of the locality.

I may add that all the measurements, with the exception of a few of those that are printed in italics, have been made by myself, and that I am responsible for their accuracy. They have been made to the nearest half-minute. Closer accuracy than this was not found to be practicable, so far at least as the quarter-inch sheets are concerned, since the length of a degree, as measured on the paper, was found to vary in some cases by several seconds, probably due to alterations in the dimensions of the paper itself

after printing. The measurements must therefore be considered as merely approximate in all cases. It is hardly possible that, in dealing with such a quantity of figures, no errors should have found their way in, but I trust that it will be found that the number of these is comparatively low.

My thanks are due to the Assistants in charge of the Map Room, Cambridge University Library, for the facilities afforded to me during the past eight years in carrying out this work. The Library contains an almost complete series of both the old and new maps of India and Burma, as well as of the countries adjoining.

T. H. DIGGES LA TOUCHE.

CAMBRIDGE,

*February, 1937.*

## LIST OF ABBREVIATIONS.

Name and period of service.

A. B. W.	Arthur Beavor Wynne, F.G.S.	1862-1883.
A. C. S.	Albert Charles Seward, Sc.D., F.R.S., etc., Professor of Botany, Cambridge.	
A. J.	Albert Jowett, D.Sc. (Leeds), M.Sc. (Manch.), F.G.S.	
A. K.	Albrecht von Krafft von Delmensingen, Ph.D.	1899, died on service, 1901.
A. L.	Antoine Francis Alfred Lacroix, D.Sc., F.G.S. Membre de l'Institut, Pro- fessor of Mineralogy, Mus. Nat. Hist., Paris.	
A. L. C.	Arthur Lennox Coulson, D.Sc. (Melb.), D.I.C., F.G.S.	1922-
A. M. H.	Alexander Macmillan Heron, D.Sc. (Edin.), F.G.S., F.R.S.E., F.R.G.S.	1906-
A. S.	Albrecht Spitz (Vienna).	
A. W. G. B.	Alfred William Gustav Bleek, Ph.D., F.G.S.	
A. W. L.	A. W. Lawder, Civil Divisional Engi- neer, Kumaon.	
B. B. G.	Bankim Behari Gupta, F.G.S.	1918-1933.
B. P.	Baini Prashad, D.Sc., Zoological Survey of India.	
B. S.	Birbal Sahni, D.Sc., Professor of Botany, Lucknow.	
C. A. H.	Charles Augustus Hacket	1861-1888.
C. A. M.	Lieut.-General Charles Alexander Mc- Mahon, F.R.S., F.G.S.	
C. D.	Carl Diener, Ph.D., Professor of Pal- æontology, Vienna.	
C. H. L.	C. H. Lander, D.Sc., Director of Fuel Research, London.	
C. J. W.	Clement J. Wilkinson	1862-1865.
C. L. G.	Carl Ludovic Griesbach, C.I.E., F.G.S.	1878-1903.
C. P.	Cesare Porro, Ph.D., Geologist, British Burma Petroleum Co.	
C. S. F.	Cyril Sankey Fox, D.Sc. (Birm.), F.G.S., M.I.Min.E.	1911-
C. S. M.	Charles Stewart Middlemiss, C.I.E., B.A., (Cantab.), F.R.S., F.G.S., F.A.S.B.	1883-1917.

Name and period of service.		
C. T. B.	Cecil Thomas Barber, M.Sc. (Birm.), F.G.S., M.Inst.P.T.	1923-1935.
D. G. O.	Capt. D. R. G. Oliver, I.A., Assistant to the Resident in Kashmir.	
D. N. W.	Darashaw Nowsherwan Wadia, M.A., B.Sc. (Bom.), F.G.S., F.R.G.S., F.A. S.B.	1921- .
E. H. P.	Sir Edwin Hall Pascoe, Kt., M.A., Sc. D. (Cantab.), D.Sc. (Lond.), F.G.S., F.A.S.B.	1905-1932.
E. J. B.	Eric Jean Bradshaw, B.A., B.A.I. (Dublin), M.Sc. (California)	1923- .
E. J. J.	Edward James Jones, A.R.S.M.	1883, died on service, 1889.
E. L. C.	Edward Leslie Gilbert Clegg, B.Sc. (Manch.)	1920- .
E. R. G.	Edward Rowland Gee, M.A. (Cantab.), F.G.S.	1923- .
E. S. .	Emil Stoehr (Zurich).	
E. S. P.	Ernest Sheppard Pinfold, M.A. (Cantab.), F.G.S.	
E. V. .	Ernest Watson Vredenburg, B.L., B.Sc. (France), A.R.S.M., A.R.C.S., F.G.S.	1895, died on service, 1923.
F. C. R.	Frederick Richard Cowper Reed, M.A., Sc.D. (Cantab.), F.G.S.	
F. F. .	Francis Fedden, A.R.S.M., F.G.S.	1860, died on service, 1887.
F. H. H.	Frederick Henry Hatch, O.B.E., Ph.D., M.Inst.C.E., M.Inst.M.M.	1900-1901.
F. H. S.	Frederick Herbert Smith, A.R.C.S.	1892-1904.
F. K. .	Franz Kossmat, Ph.D., Professor of Geology and Palæontology, Leipzig.	
F. M. B.	Count F. de Montessus de Ballore.	
F. N. .	Fritz Noetling, Ph.D.	1886-1903.
F. R. M.	Frederick Richmond Mallet, F.G.S.	1859-1889.
F. S. .	Ferdinand Stoliczka, Ph.D., F.G.S.	1862, died on service, 1874.
F. W. W.	Capt. Francis William Walker, M.C., B.A., B.A.I. (Dub.)	1921, died on service, 1925.
G. A. S.	George Alfred Stonier, A.R.S.M., F.G.S.	1899-1902.
G. C. .	Gerald de Purcell Cotter, B.A., Sc.D. (Dub.), F.G.S., F.A.S.B., M.Inst.M.M., M.Inst.P.T.	1905-1933.

# LIST OF ABBREVIATIONS.

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## Name and period of service.

G. E. G.	George Ernest Grimes, A.R.S.M., B.Sc. (Lond.), F.G.S.	1895, died on service, 1898.
G. E. O.	G. E. Ormiston, Resident Engineer, Bombay Port Trust.	
G. E. P.	Guy Elcock Pilgrim, D.Sc. (Lond.), F.G.S., F.A.S.B.	1902-1930.
G. F. R.	George Frederick Reader, F.G.S.	1899, died on service, 1901.
G. H. T.	George Howlett Tipper, M.A. (Cantab.), F.G.S., F.A.S.B.	1903-1929.
G. S. L.	Geological Survey Laboratory, Calcutta.	
G. V. H.	George Vernon Hobson, B.Sc. (Lond.), A.R.S.M., D.I.C., M.Inst.M.M.	1921-1934.
H. B. M.	Henry Benedict Medlicott, M.A., F.R.S., F.G.S.	1854-1887.
H. C.	Henry Crookshank, B.A., B.A.I. (Dub.)	1920-
H. C. J.	Hubert Cecil Jones, A.R.S.M., A.R.C.S., F.G.S.	1906-1933.
H. D.	Henri Douvillé, M.Ac.Sci. France, F.G.S.	
H. H. H.	Sir Henry Hubert Hayden, Kt., C.S.I., C.I.E., B.A., B.E. (T.C.D.), F.R.S., F.G.S., F.A.S.B.	1895-1921.
H. M. L.	Harendra Mohan Lahiri, M.Sc. (Calcutta)	1922-
H. S. B.	Herbert Stanley Bion, B.Sc. (Lond.), F.G.S.	1911, died on service, 1915.
H. W.	Heinrich Warth, Ph.D.	1890-1896.
H. W-r.	Harold Walker, A.R.C.S., F.G.S., A. Inst.M.M.	1904-1927.
J. A. D.	John Alexander Dunn, D.Sc. (Melb.), D.I.C., F.G.S.	1921-
J. B. A.	John Bicknell Auden, M.A. (Cantab.), F.G.S.	1926-
J. C. B.	John Coggin Brown, O.B.E., D.Sc. (Dunelm), F.G.S., F.A.S.B., M.I.Min. E., M.Inst.M.M., M.I.E. (India)	1905-1934.
J. G. M.	Jos. G. Medlicott, B.A.	1851-1862.
J. L. G.	Lieut.-Colonel John L. Grinlinton, D. S.O., R.G.A., F.R.G.S.	
J. M. M.	James Malcolm Maclaren, D.Sc., F.G.S.	1902-1906.
J. W.	Johannes Walther, Ph.D. (Jena).	
J. W. G.	John Walter Gregory, D.Sc., F.R.S., F.G.S., Professor of Geology, Glas- gow.	

Name and period of service.	
K. H. . .	The Revd. Kenneth Alexander Knight Hallowes, M.A. (Cantab.), A.R.S.M., F.G.S., A.Inst.M.M. . . . . 1905-1926.
K. M. . .	Major Kenneth Mason, M.C., R.E., Superintendent, Survey of India.
L. A. N. .	Lakshminarayanapuram Ananthakrishna Narayana Iyer, M.A. (Madras), Ph.D. (Lond.), D.I.C. . . . . 1922- .
L. L. F. .	Sir Lewis Leigh Fermor, Kt., O.B.E., A.R.S.M., D.Sc. (Lond.), F.R.S., F.G.S., F.A.S.B., M.Inst.M.M. . . . 1902-1935.
L. M. D. .	Lieut.-Colonel L. Merson Davies, F.R. S.E., F.G.S., F.R.A.I.
M. S. . .	Murray Stuart, D.Sc. (Birm.), B.Sc. (Lond.), F.G.S., F.C.S. . . . . 1907-1921.
M S. K. .	Maharajapuram Sitaram Krishnan, M.A. (Madras), A.R.C.S., D.I.C., Ph.D. (Lond.) . . . . . 1924- .
M. V. R. .	Rao Bahadur Malhari Vinayak Rao, B.A. (Madras) . . . . . 1904-1933.
N. A. . .	Nelson Annandale, C.I.E., D.Sc., Direc- tor, Zoological Survey of India.
N. B. . .	Norman Barraclough, B.Sc., Inspector of Mines in India.
N. D. D. .	Nanabhai Dayabhai Daru, B.Sc., B.A. (Bombay), B.Sc. (London), A.R.S.M., Bar-at-Law. . . . . 1907, died on service, 1918.
O. F. . .	Ottokar Feistmantel, M.D. . . . . 1875-1885.
O. H. . .	Otto Helm, Ph.D., Danzig.
P. K. G. .	Prakrity Kumar Ghosh, M.Sc. (Calcutta), D.I.C., D.Sc. (Lond.) . . . . . 1929- .
P. L. . .	Philip Lake, M.A. (Cantab.), F.G.S. . 1887-1891.
P. L-r. .	Peter Leicester, M.A. (Oxon.), F.G.S. . 1925-1933.
P. M. D. .	P. Martin Duncan, M.B. (Lond.), F.R.S., F.L.S., F.G.S., etc.
P. N. B. .	Pramatha Nath Bose, B.Sc. (Lond.), F.G.S. . . . . 1880-1903.
P. N. D. .	Parvati Nath Datta, B.Sc. (Lond.) . 1888-1913.
R. B. F. .	Robert Bruce Foote, F.G.S., F.M.U. . 1858-1891.
R. B. N. .	R. Bullen Newton, F.G.S.
R. C. B. .	Reginald Cooksey Burton, B.Sc. (Dunelm), F.G.S. . . . . 1912, died of wounds, Mesopotamia, 1916.
R. D. O. .	Richard Dixon Oldham, A.R.S.M., F.R.S., F.G.S. . . . . 1879-1904.
R. E. L. .	Capt. R. E. Lloyd, M.B., D.Sc., I.M.S.

# LIST OF ABBREVIATIONS.

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## Name and period of service.

R. F.	R. Fourtau, Palæontologist, Geological Survey of Egypt.	
R. L.	Richard Lydekker, B.A., F.G.S.	1874-1883.
R. R.	R. Romanis, D.Sc., Chemical Examiner to the Government of Burma.	
R. R. S.	Robert Rowell Simpson, C.I.E., M.Sc. (Dunelm)	1901-1906.
R. W. P.	Capt. Rupert William Palmer, M.C., M.Sc. (Manch.), F.G.S.	1913-1921.
S. K. C.	Shishir Kumar Chatterjee, M.Sc. (Calcutta), Ph.D. (Lond.), D.I.C., F.G.S.	1925-33.
S. S. R.	Rao Bahadur Sivarau Sethu Rama Rau, B.A. (Madras), F.G.S.	1904, died on service, 1929.
T. D. L.	Thomas Henry Digges La Touche, M.A. (Cantab.), F.G.S., F.A.S.B.	1881-1910.
T. H. H.	Sir Thomas Henry Holland, K.C.S.I., K.C.I.E., D.Sc., LL.D., F.R.S., F.G.S., F.R.S.A.	1890-1910.
T. H. W.	Thomas H. Ward, Superintendent, East Indian Railway Collieries.	
T. L. W.	Thomas Leonard Walker, M.A., Ph.D.	1897-1901.
T. O.	Thomas Oldham, LL.D., F.R.S., F.G.S.	1851-1876.
T. W. H. H.	Theodore W. Hughes Hughes, A.R.S.M., F.G.S.	1862-1894.
V. B.	Valentine Ball, M.A., F.R.S., F.G.S.	1864-1881.
W. K.	William King, B.A., D.Sc. (T.C.D.), F.G.S.	1857-1894.
W. K. C.	William Alexander Kynoch Christie, B.Sc. (Edin.), Ph.D., F.A.S.B., M. Inst.M.M., F.I.C.	1906-1932.
W. L. F. N.	Winfred Laurence Falkiner Nuttall, D.F.C., M.A., Ph.D., F.G.S.	
W. R. D.	Wyndham R. Dunstan, M.A., LL.D., Director, Imperial Institute.	
W. S.	Walter Saise, D.Sc. (Lond.), A.R.S.M., F.G.S., M.Inst.C.E., Manager, East Indian Railway Collieries.	
W. T.	William Theobald	1848-1881.
W. T. B.	William Thomas Blanford, A.R.S.M., F.R.S., F.G.S.	1855-1882.
W. W.	Wilhelm Waagen, Ph.D.	1870-1875.



# **LIST OF DISTRICTS AND STATES MENTIONED, WITH THE PROVINCES TO WHICH THEY BELONG.**

Abor Hills . . . .	Assam.	Bastar (State) . . . .	Eastern States.
Adilabad . . . .	Hyderabad.	Basti . . . .	United Provinces
Agra . . . .	United Provinces.	Belgaum . . . .	Bombay.
Ahmadabad . . . .	Bombay.	Bellary . . . .	Madras.
Ahmadnagar . . . .	"	Benares . . . .	United Provinces
Ajmer . . . .	Rajputana.	Berar (Province) . . . .	Central Provinces
Aka Hills . . . .	Assam.	Betul . . . .	" "
Akola . . . .	Berar.	Bhadrawar (Jagir) . . . .	Kashmir.
Akyab . . . .	Burma.	Bhagalpur . . . .	Bihar.
Aligarh . . . .	United Provinces.	Bhamo . . . .	Burma.
Ali-Rajpur (State) . . . .	Bhopawar.	Bhandara . . . .	Central Provinces.
Allahabad . . . .	United Provinces.	Bharatpur (State) . . . .	Rajputana.
Almora . . . .	" "	Bhilsa . . . .	Gwalior.
Alwar (State) . . . .	Rajputana.	Bhind . . . .	" "
Ambala . . . .	Punjab.	Bhopal (State) . . . .	Central India.
Amherst . . . .	Burma.	Bhopawar (Agency) . . . .	" "
Amjhera . . . .	Gwalior.	Bidar . . . .	Hyderabad.
Amraoti . . . .	Berar.	Bijapur . . . .	Bombay.
Amritsar . . . .	Punjab.	Bijawar (State) . . . .	Bundelkhand.
Anantapur . . . .	Madras.	Bijnor . . . .	United Provinces.
Andamans (Is.) . . . .	Bay of Bengal.	Bikaner (State) . . . .	Rajputana.
Angul (State) . . . .	Orissa.	Bilaspur . . . .	Central Provinces.
Arakan (Division) . . . .	Burma.	Bilaspur (State) . . . .	Punjab.
Athgarh (State) . . . .	Eastern States.	Birbhum . . . .	Bengal.
Athmallik (State) . . . .	" "	Bogra . . . .	" "
Atraf-i-Balda . . . .	Hyderabad.	Bolan Pass . . . .	Baluchistan.
Attock . . . .	Punjab.	Bonai (State) . . . .	Eastern States.
Aurangabad . . . .	Hyderabad.	Boronga (Is.) . . . .	Akyab.
Azamgarh . . . .	United Provinces.	Broach . . . .	Bombay.
Backergunge . . . .	Bengal.	Budaun . . . .	United Provinces.
Baghelkhand (Agency) . . . .	Central India.	Bulandshahr . . . .	" "
Bahawalpur (State) . . . .	Punjab.	Buldana . . . .	Berar.
Balaghat . . . .	Central Provinces.	Bundelkhand (Agency) . . . .	Central India.
Balasore . . . .	Orissa.	Bundi (State) . . . .	Rajputana.
Ballia . . . .	United Provinces.	Buner (Tribal area) . . . .	N. W. Frontier Province.
Bamra (State) . . . .	Eastern States.	Burdwan . . . .	Bengal.
Banda . . . .	United Provinces.	Cachar . . . .	Assam.
Bangalore . . . .	Mysore.	Cambay (State) . . . .	Bombay.
Banganapalle (State) . . . .	Madras.	Cawnpore . . . .	United Provinces.
Bankura . . . .	Bengal.	Chagai . . . .	Baluchistan.
Bannu . . . .	N. W. Frontier Province.	Chamba (State) . . . .	Punjab.
Banswara (State) . . . .	Rajputana.	Champaran . . . .	Bihar.
Bara Banki . . . .	United Provinces.	Chanda . . . .	Central Provinces.
Baraich . . . .	" "	Charkari (State) . . . .	Bundelkhand.
Baraunda (State) . . . .	Baghelkhand.	Cheduba (I.) . . . .	Kyaukpypu.
Bareilly . . . .	United Provinces.	Chhatarpur (State) . . . .	Bundelkhand.
Baroda (State) . . . .	Bombay.	Chhindwara . . . .	Central Provinces.
Barwani (State) . . . .	Bhopawar.	Chilas . . . .	Gilgit Agency.
Bashahr (State) . . . .	Simla Hill States.	Chin Hills . . . .	Burma.
Rassein . . . .	Burma.	Chingleput . . . .	Madras.

Chitaldrug . . .	Mysore.	Gujranwala . . .	Punjab.
Chitral (State) . . .	N. W. Frontier Province.	Gujrat . . .	"
Chittagong . . .	Bengal.	Gulbarga . . .	Hyderabad.
Chittoor . . .	Madras.	Guntur . . .	Madras.
Chobpur (State) . . .	Bundelkhand.	Gurdaspur . . .	Punjab.
Chota Udaipur (State) . . .	Rewa Kantha.	Gurgaon . . .	"
Chochin (State) . . .	Madras.	Gwalior (State) . . .	Central India.
Coimbatore . . .	"	Hamirpur . . .	United Provinces.
Cooh Behar (State) . . .	Bengal.	Hanthawaddy . . .	Burma.
Coorg (Province) . . .	Madras.	Hardoi . . .	United Provinces.
Cuddapah . . .	"	Hassan . . .	Mysore.
Cutch . . .	Bombay.	Hazara . . .	N. W. Frontier Province.
Cuttack . . .	Orissa.	Hazaribagh . . .	Bihar.
Dacca . . .	Bengal.	Henzada . . .	Burma.
Damoh . . .	Central Provinces.	Hill Tippera (State) . . .	Bengal.
Danta (State) . . .	Rajputana.	Hissar . . .	Punjab.
Daphla Hills . . .	Assam.	Hooghly . . .	Bengal.
Darjeeling . . .	Bengal.	Hoshangabad . . .	Central Provinces.
Darrang . . .	Assam.	Hoshiarpur . . .	Punjab.
Datia (State) . . .	Bundelkhand.	Hukawng . . .	Burma.
Dehra Dun . . .	United Provinces.	Hundes . . .	Tibet.
Delhi . . .	Punjab.	Hunza (State) . . .	Gilgit Agency.
Dera Ghazi (D. G.) Khan . . .	"	Hyderabad . . .	Sind.
Dera Ismail (D. I.) Khan . . .	N. W. Frontier Province.	Hyderabad (State) . . .	Deccan.
Dhar (State) . . .	Bhopawar.	Idar (State) . . .	Mahi Kantha.
Dharampur (State) . . .	Surat Agency.	Indore (State) . . .	Central India.
Dharwar . . .	Bombay.	Insein . . .	Burma.
Dhenkanal (State) . . .	Eastern States.	Isagarh . . .	Gwalior.
Dholpur (State) . . .	Rajputana.	Jaintia Hills . . .	Assam.
Dinapur . . .	Bengal.	Jaipur (State) . . .	Rajputana.
Dir (Tribal area) . . .	N. W. Frontier Province.	Jaisalmer (State) . . .	"
Drug . . .	Central Provinces.	Jalpaiguri . . .	Bengal.
Dungarpur (State) . . .	Rajputana.	Jamkhandi . . .	S. Mahratia Jagirs.
East (E.) Khandesh . . .	Bombay.	Jammu (Province) . . .	Kashmir.
Etah . . .	United Provinces.	Jashpur (State) . . .	Eastern States.
Etawah . . .	" "	Jaso (State) . . .	Baghelkhand.
Faridkot (State) . . .	Punjab.	Jaunsar (Pargana) . . .	Dehra Dun.
Faridpur . . .	Bengal.	Jessore . . .	Bengal.
Farrukhabad . . .	United Provinces.	Jeypore (Estate) . . .	Orissa.
Farrukhabad . . .	United Provinces.	Jhabua (State) . . .	Bhopawar.
Farrukhabad . . .	United Provinces.	Jhalawar (State) . . .	Rajputana.
Farrukhabad . . .	United Provinces.	Jhang . . .	Punjab.
Farrukhabad . . .	United Provinces.	Jhansi . . .	United Provinces.
Farrukhabad . . .	United Provinces.	Jhelum . . .	Punjab.
Farrukhabad . . .	United Provinces.	Jind (State) . . .	"
Farrukhabad . . .	United Provinces.	Jobat (State) . . .	Bhopawar.
Farrukhabad . . .	United Provinces.	Jodhpur (State) . . .	Rajputana.
Farrukhabad . . .	United Provinces.	Jubbulpore . . .	Central Provinces.
Farrukhabad . . .	United Provinces.	Kadur . . .	Mysore.
Farrukhabad . . .	United Provinces.	Kaira . . .	Bombay.
Farrukhabad . . .	United Provinces.	Kalahandi (State) . . .	Eastern States.
Farrukhabad . . .	United Provinces.	Kalat (State) . . .	Baluchistan.
Farrukhabad . . .	United Provinces.	Kamrup . . .	Assam.
Farrukhabad . . .	United Provinces.	Kangra . . .	Punjab.

Kanker (State) . . .	Eastern States.	Malabar . . .	Madras.
Kapurthala (State) . .	Punjab.	Malda . . .	Bengal.
Karachi . . .	Sind.	Malwa (Agency) . .	Central India.
Karauli (State) . . .	Rajputana.	Manbhūm . . .	Bihar.
Karenni (State) . . .	Burma.	Mandalay . . .	Burma.
Karimnagar . . .	Hyderabad.	Mandasor . . .	Gwalior.
Karnal . . .	Punjab.	Mandi (State) . . .	Punjab.
Katha . . .	Burma.	Mandla . . .	Central Provinces.
Kathiawar . . .	Bombay.	Manipur (State) . .	Assam.
Kawardha (State) . .	Eastern States.	Ma-Ubin . . .	Burma.
Konjhar (State) . . .	" "	Mayurbhanj (State) .	Eastern States.
Khairagarh (State) . .	" "	Medak . . .	Hyderabad.
Khairpur (State) . . .	Sind.	Meerut . . .	United Provinces.
Kharan . . .	Baluchistan.	Meiktila . . .	Burma.
Khariar (Zamindari) . .	Orissa.	Mergui . . .	"
Kharsawan (State) . .	Eastern States.	Merwara . . .	Rajputana.
Khasi Hills . . .	Assam.	Mewar (Udaipur State)	"
Kheri . . .	United Provinces.	Mianwali . . .	Punjab.
Khulna . . .	Bengal.	Midnapore . . .	Bengal.
Khyber . . .	N. W. Frontier Province.	Minbu . . .	Burma.
Kishungurh (State) . .	Rajputana.	Miranzai (Tribal area)	N. W. Frontier Province.
Kishtwar (Province) . .	Kashmir.	Mirzapur . . .	United Provinces.
Kistna . . .	Madras.	Mishmi Hills . . .	Assam.
Kohat . . .	N. W. Frontier Province.	Monghyr . . .	Bihar.
Kolaba . . .	Bombay.	Mongmt (State) . .	Burma.
Kolar . . .	Mysore.	Moradabad . . .	United Provinces.
Kolhapur (State) . . .	Bombay.	Mudhol . . .	S. Mahratta Jagirs.
Korea (State) . . .	Eastern States.	Multan . . .	Punjab.
Kotah (State) . . .	Rajputana.	Murshidabad . . .	Bengal.
Kothi (State) . . .	Baghelkhand.	Muttra . . .	United Provinces.
Kuei-chou (Province) .	China.	Muzaffarnagar . . .	" "
Kulu (Tahsil) . . .	Kangra.	Muzaffarpur . . .	Bihar.
Kurandvad . . .	S. Mahratta Jagirs.	Myaungmya . . .	Burma.
Kurnool . . .	Madras.	Myingyan . . .	"
Kurram . . .	N. W. Frontier Province.	Myitkyina . . .	"
Kushalgarh (Estate) . .	Rajputana.	Mymensingh . . .	Bengal.
Kyaukpyu . . .	Burma.	Mysore (district) . .	Mysore.
Kyaukse . . .	"	Nadia . . .	Bengal.
Ladakh (Province) . . .	Kashmir.	Naga Hills . . .	Assam.
Lahul (canton) . . .	Kangra.	Nagir (State) . . .	Gilgit Agency.
Lakhimpur . . .	Assam.	Nagod (State) . . .	Baghelkhand.
Larkhana . . .	Sind.	Nagpur . . .	Central Provinces.
Las Bela (State) . . .	Baluchistan.	Naini Tal . . .	United Provinces.
Loralai . . .	"	Nalgonda . . .	Hyderabad.
Lower (L.) Chindwin . .	Burma.	Nander . . .	"
Lucknow . . .	United Provinces.	Nandgaon (State) . .	Eastern States.
Lushai Hills . . .	Assam.	Narsingharh (State) .	Bhopal Agency.
Madura . . .	Madras.	Narsinghpur . . .	Central Provinces
Magwe . . .	Burma.	Narukot (State) . .	Rewa Kantha.
Mahbubnagar . . .	Hyderabad.	Narwar . . .	Gwalior.
Mahi Kantha (Agency) .	Bombay.	Nasik . . .	Bombay.
Mahar (State) . . .	Baghelkhand.	Navsari (Taluk) . .	Baroda.
Mainpuri . . .	United Provinces.	Nellore . . .	Madras.
Makran . . .	Las Bela.	Nilgiri . . .	"
		Nilgiri (State) . . .	Eastern States.
		Nimar . . .	Central Provinces
		Nisarpur (State) . .	Bhopawar.
		North (N.) Arakan . .	Burma.

# LIST OF DISTRICTS AND STATES.

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North (N.) Arcot .	Madras.	Sadiya (Frontier Assam.	
North (N.) Kanara .	Bombay.	Tract).	
Northern (N.) Shan	Burma.	Sagaing .	Burma.
States.		Saharanpur .	United Provinces.
Nowgong .	Assam.	Sailana (State) .	Malwa.
		Salem .	Madras.
Oman .	Arabia.	Salween .	Burma.
Orchha (State) .	Bundelkhand.	Sambalpur .	Orissa.
		Sandoway .	Burma.
Pabna .	Bengal.	Sandur (State) .	Madras.
Pakokku .	Burma.	Sangli .	S. Mahratta
Pal Lahara (State)	Eastern States.		Jagirs.
Palanau .	Bihar.	Santal Parganas	Bihar.
Palanpur (State)	Rajputana.	Saraikela (State)	Eastern States.
Paldeo (Jagir) .	Baghelkhand.	Saran .	Bihar.
Panch Mahals .	Bombay.	Sarila (State) .	Bundelkhand.
Panna (State) .	Bundelkhand.	Satara .	Bombay.
Parantij (Taluk)	Ahmedabad.	Saugor .	Central Provinces.
Parbhani .	Hyderabad.	Savantvadi (State)	Bombay.
Partabgarh (State)	Rajputana.	Seistan .	Baluchistan.
Patarkechar (State)	Bundelkhand.	Seoni .	Central Provinces.
Patials (State) .	Punjab.	Shahabad .	Bihar.
Patna .	Bihar.	Shahpur .	Punjab.
Patna (State) .	Eastern States.	Shahpura (State)	Rajputana.
Pegu .	Burma.	Shekhupura .	Punjab.
Peshawar .	N.-W. Frontier	Shimoga .	Mysore.
	Province.	Shwebo .	Burma.
Pinjaur (Tahsil) .	Patials.	Sialkot .	Punjab.
Pondicherry (French).	Madras.	Sibi .	Baluchistan.
Poona .	Bombay.	Sibsagar .	Assam.
Pottangi (Taluk)	Orissa.	Sikkim (State) .	Bengal.
Prome .	Burma.	Simla (Simla Hill	Punjab.
Pudukkottai (State)	Madras.	States).	
Punch (Jagir) .	Kashmir.	Singhbhum .	Bihar.
Puri .	Orissa.	Singpho Hills	Assam.
Purnea .	Bihar.	Sirmur (State) .	Punjab.
Putao .	Burma.	Sirohi (State) .	Rajputana.
Pyapon .	"	Sitapur .	United Provinces.
		Sohawal (State)	Baghelkhand.
Quetta-Pishin .	Baluchistan.	Sonpur (State) .	Eastern States.
Quilon .	Travancore.	South (S.) Arcot	Madras.
		South (S.) Kanara	"
Rae Bareilly .	United Provinces.	South (S.) Mahratta	Bombay.
Raichur .	Hyderabad.	Jagirs.	
Raigarh (State)	Eastern States.	Southern (S.) Shau	Burma.
Raipur .	Central Provinces.	States.	
Rairakhol (State)	Eastern States.	Spiti (canton) .	Kangra.
Rajpipla (State)	Rewa Kantha.	Ssu-chuan (Province).	China.
Rajshahi .	Bengal.	Suket (State) .	Punjab.
Rannad .	Madras.	Sukkur .	Sind.
Ramri (I.) .	Kyaukpau.	Sultanpur .	United Provinces.
Ranchi .	Bihar.	Sunth (State) .	Rewa Kantha.
Rangpur .	Bengal.	Surat .	Bombay.
Ratanmal (State)	Bhopawar.	Surguja (State) .	Eastern States.
Ratlam (State) .	Malwa.	Swat (Tribal area)	N.-W. Frontier
Ratnagiri .	Bombay.		Province.
Rawalpindi .	Punjab.	Sylhet .	Assam.
Rewa Kantha (Agency)	Bombay.		
Rewah (State) .	Baghelkhand.	Talcher (State) .	Eastern States.
Ruby Mines .	Burma.	Tanjore .	Madras.
Rupshu .	Ladakh.	Tavoy .	Burma.

Tehri (State) . . .	United Provinces.	Vizagapatam . . .	Madras.
Tezpur . . .	Assam.		
Thana . . .	Bombay.		
Thar Parkar . . .	Sind.		
Tharrawaddy . . .	Burma.	Warangal . . .	Hyderabad.
Thaton . . .	"	Wardha . . .	Central Provinces.
Thayetmyo . . .	"	Waziristan . . .	N.-W. Frontier Province.
Tinnevely . . .	Madras.	West (W.) Khandesh . .	Bombay.
Tippera . . .	Bengal.	Wuntho (State) . . .	Burma.
Tirah (Tribal area) . .	N.-W. Frontier Province.	Wynnad (Taluk) . . .	Malabar.
Tochi (valley) . . .	Waziristan.		
Tonk (State) . . .	Rajputana.	Yamethin . . .	Burma.
Torgal (Jagir) . . .	Kolhapur.	Yasin (State) . . .	N.-W. Frontier Province.
Toungoo . . .	Burma.	Yeotmal . . .	Berar.
Travancore (State) . .	Madras.	Yunnan (Province) . .	China.
Trichinopoly . . .	"		
Tumkur . . .	Mysore.		
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Udaipur (State) . . .	Eastern States.	Zangskar . . .	Ladakh.
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# GEOGRAPHICAL INDEX

TO THE

## MEMOIRS AND RECORDS OF THE GEOLOGICAL SURVEY OF INDIA

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- Adh R. (W), *Rewah* (63 H/14;  $24^{\circ} 31' : 81^{\circ} 45'$ ), diversion of drainage. R. D. O., **M**, XXXI, 49.
- Adhi Kot, *Shahpur* (38 P/16;  $32^{\circ} 6' : 71^{\circ} 48' 30''$ ), meteorite. H. H. H., **R**, LI, 7; G. V. H., **R**, LX, 128 (Pl. i).

- Adhove (Adhoi), *Cutch* (41 I/11;  $23^{\circ} 24' : 70^{\circ} 31'$ ), ammonites and fossil wood. A. B. W., **M**, IX, 126; earthquake, 1819. R. D. O., **M**, XLVI, 38.
- Adi (Wadi), *Oman* (26 I/10;  $23^{\circ} 30' : 58^{\circ} 30'$ ), Carboniferous fossils. G. E. P., **M**, XXXIV, pt. 4, 10, 92.
- Adital (Ariat), *Jammu* (43 K/4;  $33^{\circ} 5' : 74^{\circ} 2'$ ), U. Siwalik beds. W. T., **R**, XIV, 93.
- Adjai (Ajay) R., *Birbhum* (73 M/2;  $23^{\circ} 43' : 87^{\circ} 6'$ ), Barakar beds. W. T. B., **M**, III, 46, 49; monoclinial fold-fault. E. H. P., **R**, LXII, 143.
- Adjundi, *Singhbhum* (73 F/10;  $22^{\circ} 38' : 85^{\circ} 41'$ ), Ongabira trap-shale boundary. J. A. D., **M**, LIV, 136.
- Adoni, *Bellary* (57 E/6;  $15^{\circ} 38' : 77^{\circ} 16'$ ), gneissose granite. R. B. F., **M**, XXV, 67.
- Adopodara, *Idar* (46 E/2;  $23^{\circ} 33' : 73^{\circ} 10'$ ), quartz vein. C. S. M., **M**, XLIV, 130.
- Adrak Badrak Kotal, *Afghanistan* (38 F/15;  $34^{\circ} 28' : 69^{\circ} 54'$ ), hornblendic gneiss. C. L. G., **R**, XXV, 73.
- Adrana, *Jhelum* (43 H/5;  $32^{\circ} 59' : 73^{\circ} 25'$ ), water-supply. L. L. F., **R**, LXV, 69.
- Adumurunhal, *Bijapur* (47 P/12;  $16^{\circ} 12' 30'' : 75^{\circ} 43' 30''$ ), L. Kaladgi beds. R. B. F., **M**, XII, 79.
- Agang, *Tibet* (78 E/2;  $27^{\circ} 42' : 89^{\circ} 10'$ ), Liassic fossils. H. H. H., **M**, XXXVI, 147.
- Agani, *Gulbarga* (56 D/6;  $16^{\circ} 34' : 76^{\circ} 28'$ ), landslip. R. B. F., **M**, XII, 152; limestone quarry, 154.
- Agaram, *Trichinopoly* (58 I/16;  $11^{\circ} 2' : 78^{\circ} 49'$ ), Utatur clays. H. F. B., **M**, IV, 82.
- Agaram Sibbandi, *N. Arcot* (57 P/3;  $12^{\circ} 23' : 79^{\circ} 6'$ ), iron-ore. E. H. P., **R**, LXI, 123.
- Agargaon, *Nagpur* (55 O/8;  $21^{\circ} 5' 30'' : 79^{\circ} 29'$ ), wolfram. L. L. F., **R**, XXXVI, 302; **M**, XXXVII, 209.
- Agaria, *Jubbulpore* (64 A/3;  $23^{\circ} 23' : 80^{\circ} 9'$ ), iron-ore. F. R. M., **R**, XVI, 97.
- Agariapura, *Surguja* (64 I/11;  $23^{\circ} 29' : 82^{\circ} 44'$ ), coal seams. T. W. H. H., **M**, XXI, 236.
- Agartala, *Hill Tippera* (79 M/5;  $23^{\circ} 51' : 91^{\circ} 21'$ ), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 333; Srimangal earthquake, 1918. M. S., **M**, XLVI, 19.
- Agarwar, *Rewah* (63 L/10;  $24^{\circ} 32' 30'' : 82^{\circ} 39' 30''$ ), porcellanic stago. L. Vindhyan. P. N. D., **R**, XXIX, 81.
- Aghor, *Las Bela* (35 G/11;  $25^{\circ} 28' : 65^{\circ} 32'$ ), oil boring site. E. V., **R**, XXXVIII, 207.
- Agia, *Goalpara* (78 J/12;  $26^{\circ} 5' : 90^{\circ} 34'$ ), earthquake, 1897. R. D. O., **M**, XXIX, 19.
- Agolai, *Jodhpur* (45 B/11;  $26^{\circ} 17' : 72^{\circ} 38'$ ), Malani rhyolite. T. D. L., **M**, XXXV, 47.
- Agori Khas, *Mirzapur* (63 L/14;  $24^{\circ} 32' 30'' : 82^{\circ} 58'$ ), L. Vindhyan unconformity. F. R. M., **M**, VII, 31; L. Vindhyan limestone, 41; R. D. O., **M**, XXXI, 13; Bijawar quartzite. E. V., **M**, XXXI, 60; jasper, 67.



- Agra, *Tonk* (55 E/5; 23° 56' 30" : 77° 24'), bauxitic laterite. T. H. H., **R**, XXXV, 57; C. S. F., **M**, XLIX, 102.
- Agra, *United Provs.* (54 I/4; 27° 10' : 78° 1'), formation of sand dunes. F. R. M., **M**, VII, 25 (fig.); Artesian boring. H. B. M., **R**, XVIII, 121; E. V., **M**, XXXII, 39; earthquakes: Assam, 1897. R. D. O., **M**, XXIX, 44; Kangra, 1905. C. S. M., **M**, XXXVIII, 236; Srimangal, 1918. M. S., **M**, XLVI, 31.
- Agrarum Kotallum (Kotallum), *S. Arcot* (58 M/2; 11° 41' : 79° 1'), bedded gneiss. W. K., **M**, IV, 308; porphyritic trap, 334.
- Agrezpali (Angaraipalli), *Adilabad* (56 N/13; 18° 48' 30" : 79° 47'), reptilian remains. T. W. H. H., **R**, XI, 26.
- Ahatguri, *Sibsagar* (83 F/13; 26° 49' : 93° 54'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 342.
- Ahiri, *Yeotmal* (55 P/4; 20° 4' : 79° 3'), boring for coal. T. W. H. H., **M**, XIII, 49; ossiferous conglomerate, 92.
- Ahirwala, *Jaipur* (45 M/14; 27° 37' : 75° 51'), Ajabgarh quartzite. A. M. H., **R**, LIV, 372.
- Ahkund (Ekhund), *Nimar* (55 B/4; 22° 10' 30" : 76° 12'), Gondwana beds. P. N. B., **M**, XXI, 21; Lameta beds, 45, building stone, 71=Akhund.
- Ahmadabad, *Bombay* (46 A/12; 23° 1' : 72° 35'), Artesian boring. H. B. M., **R**, XIV, 219; earthquakes: Cutch, 1819. R. D. O., **M**, XLVI, 113; aftershocks, 116; Assam, 1897. XXIX, 50; Kangra, 1905. C. S. M., **M**, XXXVIII, 250.
- Ahmadi R., *Persia* (25 A/13; 27° 48' : 56° 48'), Eocene beds. G. E. P., **M**, XLVIII, pt. 2, 102 (Pl. xii, fig. 2).
- Ahmedi, *Persia* (25 A/9; 27° 50' : 56° 43'), oil seepage. G. E. P., **M**, XXXIV, pt. 4, 148.
- Ahmednagar, *Idar* (46 A/14; 23° 36' : 72° 58'), sandstone. C. S. M., **M**, XLIV, 138 (figs. & Pl. vii, fig. 1).
- Ahmednuggur (Ahmadnagar), *Bombay* (47 I/12; 19° 6' : 74° 44'), Deccan trap. W. T. B., **R**, I, 60.
- Ahmedpur, *Birbhum* (73 M/1; 23° 48' : 87° 14'), hot spring. T. O., **M**, XIX, 140.
- Ahnai Tangi, *Waziristan* (38 L/3; 32° 28' : 70° 2'), dam-site. E. H. P., **R**, LXIII, 67.
- Ahtaran R., *Amherst* (94 H/16; 16° 11' : 97° 58'), hot springs. T. O., **M**, XIX, 152.
- Ahtoor, *Salem* (58 I/10; 11° 36' : 78° 36'), 'trap-shotten' gneiss. W. K., **M**, IV, 271; T. H. H., **M**, XXVIII, 201; iron sand. W. K., **M**, IV, 294 =Attur.
- Ahwaz, *Persia* (10 A/11; 31° 20' : 48° 42'), Bakhtiyari sandstone. G. E. P., **M**, XXXIV, pt. 4, 76.
- Aiholi (Iwulee), *Bijapur* (47 P/16; 16° 1' : 75° 53' 30"), sandstone quarries. R. B. F., **M**, XII, 260.
- Aijal, *Lushai* (84 A/10; 23° 44' : 92° 43'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 26.
- Aikywa, *Shwebo* (84 J/13; 22° 49' : 94° 53' 30"), iron-ore. E. H. P., **R**, LXIII, 36.

- Ail (Yel), *Kashmir* (43 O/10; 33° 31' : 75° 31' 30"), limestone, ? Triassic. R. L., R, XI, 58.
- Ain El Qar, *Persian Gulf* (11 K/9; 25° 58' : 50° 35'), asphalt. G. E. P., M, XXXIV, pt. 4, 114 (fig.), 150 (Pl. xiii).
- Ain Lailah pass, *Iraq* (2 B/15; 34° 20' : 44° 49'), anticline, Kurd series. E. H. P., M, XLVIII, 64 (Pl. x).
- Ainaveram (Ayinapuram), *Trichinopoly* (58 I/16; 11° 6' : 78° 56' 30"), Upper Utatur beds. H. F. B., M, IV, 86, 87.
- Aindhar, *Gwalior* (54 K/2; 25° 32' 30" : 78° 5'), galena. H. H. H., R, XLI, 70.
- Aingdo, *Yamethin* (84 P/15; 20° 22' : 95° 56'), Pegu fossils. E. H. P., R, LIX, 75.
- Aingma, *Minbu* (84 L/12; 20° 7' : 94° 38'), Tertiary sandstones and clays. H. H. H., R, XXIX, 74; basal beds, Irrawadian series. G. C., R, XLI, 221.
- Ainu (Ayun), *Kashmir* (43 O/5; 33° 52' : 75° 18'), Syringothyris limestone. C. S. M., R, XL, 219; Fenestella series, 231.
- Ainwa, *Mianwali* (38 P/9; 32° 55' 30" : 71° 38'), intrusion of gypsum and Red Marl. C. S. M., R, XXIV, 39 (Pl. iv).
- Aipeta, *Chanda* (65 B/1; 18° 45' : 80° 3'), Kota beds. W. K., R, XIII, 20.
- Aitemvalsa, *Vizagapatam* (65 N/11; 18° 23' : 83° 35'), manganese-ore. L. L. F., M, XXXVII, 1100.
- Aitura (Ethora), *Burdwan* (73 I/14; 23° 45' : 86° 55' 30"), opening of colliery. W. T. B., M, III, 155.
- Ajabgarh, *Alwar* (54 A/8; 27° 11' : 76° 17' 30"), Ajabgarh series. C. A. H., R, X, 88; Alwar beds, scarp. A. M. H., M, XLV, 55; Kushalgarh limestone, 59, 60; hornstone breccia, 69; Ajabgarh series, 84.
- Ajitgarh, *Jaipur* (45 M/15; 27° 25' : 75° 49'), granite, petrology. A. M. H., R, LIV, 380; tourmaline-pegmatite, 383.
- Ajitgarh, *Merwara* (45 K/1; 25° 46' 30" : 74° 9'), graphite. E. H. P., R, LVI, 29.
- Ajjuwala, *Attock* (43 C/10; 33° 36' : 72° 36'), oil seepages. E. H. P., M, XI, 377.
- Ajmer, *Rajputana* (45 J/11; 26° 28' : 74° 38'), lead-ore. C. A. H., R, XIII, 247; Alwar quartzites. XIV, 285; mica. T. H. H., M, XXXIV, 70; Kangra earthquake, 1905. C. S. M., M, XXXVIII, 241; water-supply. T. H. H., R, XXXVII, 42; H. H. H., R, XLIV, 26.
- Ajmirgarh, *Bilaspur* (64 F/13; 22° 46' : 81° 48'), aluminous laterite. C. S. F., M, XLIX, 148.
- Ajmiri, *Jaipur* (45 M/15; 27° 30' : 75° 55'), Alwar quartzites. A. M. H., R, LIV, 364.
- Ajoura, *Banda* (63 G/4; 25° 14' 30" : 81° 5' 30"), brecciation of Semri beds. H. B. M., M, II, 26.
- Ajra, *Kolhapur* (47 I/4; 16° 7' : 74° 13'), building stone. H. C. J., R, LIV, 426.
- Ak Baital pass, *Russian Turkestan* (42 F/10; 38° 35' : 73° 35'), Devonian fossils. H. H. H., R, XLV, 315.
- Ak Robat, *Afghanistan* (33 N/9; 34° 56' : 67° 39'), anthracitic coal. C. L. G., R, XIX, 241; R. R. S., M, XLI, 12; Fusulina limestone. H. H. H., M, XXXIX, 26, 55.

- Aka Khel, *Waziristan* (38 H/14 ; 32° 33' : 69° 58'), Janjal plant beds. M. S., R, LIV, 96.
- Akarsani hill, *Kharsawan* (73 F/13 ; 22° 46' : 85° 51'), granophyre. T. H. H., R, XXXVIII, 18=Arkasani hill.
- Akasampati, *S. Arcot* (57 P/16 ; 12° 0' 30" : 79° 46'), Cretaceous limestone. H. W., R, XXVIII, 19.
- Akasi, *Santal Parganas* (72 P/2 ; 24° 37' 30" : 87° 12'), lead-ore. L. L. F., R, LIII, 283.
- Akauklaung, *Prome* (85 N/2 ; 18° 30' 30" : 95° 6'), limestone. W. T., M, X, 344 ; 'Marine Irrawaddy' beds. M. S., R, XLI, 243.
- Akbarnagar, *Santal Parganas* (72 O/16 ; 25° 4' : 87° 46' 30"), boring for coal. R. R. S., M, XLI, 38.
- Akbarpur, *Alwar* (54 A/11 ; 27° 27' : 76° 32'), Kushalgarh limestone. A. M. H., M, XLV, 60, 67 ; manganese-ore, 64, 120.
- Akbarpur, *Saharanpur* (53 F/11 ; 30° 16' 30" : 77° 33'), meteorite. J. C. B., M, XLIII, 161.
- A-ke, *Yunnan* (101 D/9 ; 24° 55' 30" : 100° 32'), Permo-Triassic beds. J. C. B., R, LIV, 322.
- Akeri, *Savantvadi* (48 E/13 ; 15° 56' : 73° 47'), talc-rock. R. B. F., M, XII, 54.
- Akhadana, *Jaisalmer* (45 A/3 ; 27° 20' : 72° 11'), Vindhyan sandstone. R. D. O., R, XXI, 31.
- Akhaura, *Tippera* (79 M/1 ; 23° 52' : 91° 13'), earthquake, 1897. G. E. G., M, XXIX, 296 ; Srimangal earthquake, 1918. M. S., M, XLVI, 19.
- Akhori, *Punch* (43 K/1 ; 33° 55' : 74° 9'), Murree-Laki boundary. D. N. W., M, LI, 295 ; coal, 366.
- Akhori hill, *Hazara* (43 F/6 ; 34° 38' 30" : 73° 23'), Triassic beds. D. N. W., R, LXV, 212.
- Akhund, *Nimar* (55 B/4 ; 22° 10' 30" : 76° 12'), building stone. L. L. F., R, L, 276=Ahkund.
- Akhund Baba, *Hazara* (43 B/14 ; 34° 31' : 72° 57'), metamorphic rocks, section. C. S. M., M, XXVI, 256 (fig.).
- Aknepali (Akanpalli), *Adilabad* (56 M/12 ; 19° 1' : 79° 31' 30"), fault. W. K., M, XVIII, 242, 254.
- Aknur, *Jammu* (43 I/9 ; 32° 53' : 74° 44'), hot spring. T. O., M, XIX, 117.
- Akoda, *Bundi* (45 O/10 ; 25° 32' : 75° 40'), Kaimur sandstone. A. L. C., R, LX, 168.
- Akola, *Ahmadnagar* (47 I/2 ; 19° 32' 30" : 74° 1'), highest point on Deccan trap. L. L. F., M, XXXVII, 662.
- Akola, *Nagpur* (55 O/6 ; 21° 33' : 79° 27'), local discordance in Sausar series. L. L. F., R, LXV, 103.
- Arri, *Cutch* (41 A/11 ; 23° 23' : 68° 36'), Gaj series, *Pecten*. E. V., M, L, 432.
- Aksapur (Anksapur), *Adilabad* (56 M/7 ; 19° 21' : 79° 24'), Barakar beds. W. K., M, XVIII, 180 ; R. R. S., M, XLI, 100.
- Akse, *Hundes* (52 L/11 ; 32° 21' 30" : 78° 42'), granite. H. H. H., M, XXXVI, 97.
- Aktagh, *E. Turkestan* (51 H/16 ; 36° 1' : 77° 59'), Silurian slates (?). F. S., R, VII, 14.

- Aktash, *Kashgar* (42 K/14; 37° 38' : 74° 50'), Triassic fossils. C. D., **M**, XXXVI, 317; Pamir limestone. H. H. H., **R**, XLV, 312.
- Aktash glacier, *Ladakh* (52 E/12; 35° 6' : 77° 43'), condition in 1909. D. G. O., **R**, XL, 345; movements of snout. K. M., **R**, LXIII, 274.
- Akwara, *Kathiawar* (46 C/2; 21° 44' : 72° 11' 30"), Gaj fossils. F. F., **M**, XXI, 109.
- Akyab, *Arakan* (84 D/16; 20° 8' : 92° 53'), Artesian boring. G. E. G., **A. R.**, 1898, 48; E. V., **M**, XXXII, 68; earthquakes: Assam, 1897, time record. R. D. O., **M**, XXIX, 67; Burma, 1912. J. C. B., **M**, XLII, 68; Srimangal, 1918, sympathetic shock. M. S., **R**, XLIX, 180; **M**, XLVI, 24, 52.
- Akyaung R., *Putao* (92 I/8; 27° 10' : 98° 26'), gold. M. S., **R**, L, 252.
- Al Bidia, *Persian Gulf* (11 J/8; 26° 13' : 50° 21'), Eocene limestone with flints. G. E. P., **M**, XXXIV, pt. 4, 119; sand dunes, 122.
- Al Buza, *Persian Gulf* (18 N/2; 26° 38' : 55° 1' 30"), volcanic rocks, Oman series. G. E. P., **M**, XXXIV, pt. 4, 12, 106, 110.
- Al Katif, *Persian Gulf* (11 J/2; 26° 34' : 50° 0'), freshwater springs. G. E. P., **M**, XXXIV, pt. 4, 125.
- Alada-marada Banda, *Sandur* (57 A/12; 15° 0' 30" : 76° 36'), manganese-ore. L. L. F., **M**, XXXVII, 1013-4, 1029.
- Aladhalli, *Shimoga* (48 N/12; 14° 2' : 75° 37'), manganese-ore. L. L. F., **M**, XXXVII, 1142.
- Alakudi, *Tanjore* (58 N/1; 10° 47' : 79° 3'), Cretaceous marine beds. E. V., **R**, XL, 337.
- Alampur, *Betul* (55 F/12; 22° 3' : 77° 35'), biotitic granite and gneiss. H. H. H., **R**, XLVII, 37.
- Alamur, *Kurnool* (57 I/12; 15° 8' : 78° 35'), hot springs. T. O., **M**, XIX, 148.
- Alangayam, *N. Arcot* (57 L/14; 12° 37' : 78° 45'), barytes. T. H. H., **R**, XXX, 236.
- Alapali, *Warangal* (65 C/5; 17° 50' : 80° 29'), coal. W. T. B., **R**, IV, 82; W. K., **M**, XVIII, 186; R. R. S., **M**, XLI, 99.
- Alay-khyoung, *Thayetmyo* (85 J/13; 18° 58' : 94° 56'), steatite. W. T. **M**, X, 337.
- Albaka, *Godavari* (65 B/12; 18° 13' : 80° 40'), quartzites. W. K., **M**, XVIII, 226.
- Aldabou, *Garhwal* (53 K/9; 29° 47' : 78° 35'), Tal beds. C. S. M., **R**, XVIII, 74.
- Alesur, *Ohhindwara* (55 K/14; 21° 43' : 78° 54'), manganiferous limestone. L. L. F., **M**, XXXVII, 790; **R**, XXXIII, 212.
- Aleywa, *Pakokku* (84 L/5; 20° 51' : 94° 17' 30"). Tertiary gastropoda. E. V., **R**, LIV, 244.
- Aiguada reef, *Bay of Bengal* (86 I/2; 15° 42' : 94° 12'), earthquake, 1897. R. D. O., **M**, XXIX, 51.
- Algundi, *Mudhol* (47 P/7; 16° 15' 30" : 75° 26'), L. Kaladgi limestone. R. B. F., **M**, XII, 123.
- Ali, *Bhopanwar* (46 J/8; 22° 11' 30" : 74° 22'), metamorphic rocks. P. N. B. **M**, XXI, 10; Nimar sandstone, 27=Allee.
- Ali, *Persian Gulf* (11 J/12; 26° 11' : 50° 32'), prehistoric monuments. G. E. P., **M**, XXXIV, pt. 4, 116.

- Ali Bandar, *Thar Parkar* (40 H/3; 24° 22' : 69° 4'), Indus dam. R. D. O., **M**, XLVI, 83, 85, 91.
- Ali Khurshid, *Persia* (10 E/14; 31° 32' : 49° 51'), Bakhtiyari conglomerate. G. E. P., **M**, XXXIV, pt. 4, 79 (Pl. vi).
- Ali Masjid, *Khyber* (38 N/8; 34° 2' : 71° 15' 30'), Carboniferous limestone (?). C. L. G., **R**, XXV, 92; H. H. H., **M**, XXXIX, 41.
- Aliabad, *Hunza* (42 L/11; 36° 18' : 74° 37'), crystalline limestone. H. H. H., **R**, XLV, 297.
- Alinbad, *Persia* (17 P/14; 28° 35' : 55° 51' 30'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 8, 12, 86, 111.
- Alicoor (Allikkuli), *Chingleput* (57 O/15; 13° 16' : 79° 47'), U. Gondwana beds. R. B. F., **R**, III, 14; **M**, X, 72.
- Aligarh, *United Provs.* (54 I/1; 27° 53' : 78° 5'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 236.
- Aligot, *Chitral* (42 D/7; 36° 28' : 72° 18'), orpiment mines. L. L. F., **R**, LIV, 17.
- Alimatti, *Belgaum* (47 P/3; 16° 19' : 75° 6'), limestone breccia. R. B. F., **M**, XII, 125.
- Alinagar, *Sylhet* (78 P/15; 24° 21' : 91° 53' 30'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 14.
- Alipur, *Bharatpur* (54 A/16; 27° 10' : 76° 59' 30'), Alwar quartzites. A. M. II., **M**, XLV, 84.
- Alipur, *Jalpaiguri* (78 F/11; 26° 30' : 89° 32'), earthquake, 1897. H. H. H., **M**, XXIX, 288.
- Aiipur, *Jhelum* (43 H/1; 32° 56' : 73° 13'), Siwalik fossils. G. E. P., **R**, XL, 63; XLV, 27.
- Alisur, *Seoni* (55 O/5; 21° 53' : 79° 29'), fault in Deccan trap. R. C. B., **R**, XLVIII, 213.
- Alkusa, *Manbhum* (73 I/14; 23° 38' 30" : 86° 51'), Panchet plants. E. R. G., **R**, LXIII, 206.
- Atlabad Serai, *Punch* (43 K/10; 33° 39' : 74° 35'), gabbro. D. N. W., **M**, LI, 317.
- Allagiri, *Madura* (58 J/4; 10° 5' : 78° 13'), quartz-rock. R. B. F., **M**, XX, 16.
- Allahabad, *United Provs.* (63 G/15; 25° 26' : 81° 50'), vertebrate fossils. G. E. P., **R**, XXXI, 176; earthquakes: Assam, 1897. R. D. O., **M**, XXIX, 36; time record, 65, 71; sounds, 193; Kangra, 1905. C. S. M., **M**, XXXVIII, 247; Srimangal, 1918. M. S., **M**, XLVI, 31.
- Allanmyo, *Thayetmyo* (85 M/3; 19° 22' : 95° 13'). earthquakes: Assam, 1897, time record. R. D. O., **M**, XXIX, 67; Burma, 1912. J. C. B., **M**, XLII, 69.
- Alle Chaung, *Ramri I.* (85 E/16; 19° 11' 30" : 93° 48'), limestone. F. R. M., **R**, XI, 222; E. H. P., **M**, XL, 182.
- Allee, *Bhopawar* (46 J/8; 22° 11' 30" : 74° 22'), metamorphic rocks. W. T. B., **M**, VI, 192; Cretaceous beds, 208, 311=Ali.
- Alleppy, *Travancore* (58 C/7; 9° 30' : 76° 19'), mud bank. W. K., **R**, XVII, 15 (Pl. i); R. D. O., **R**, XVII, 190; P. L., **R**, XXIII, 42 (Pl. v); analysis of mud. R. G. Neilson, **R**, XXXIV, 40.

- Allinagaram, *Trichinopoly* (58 M/4; 11° 9' : 79° 4'), Cretaceous fossils. C. A. Matley, **R**, LXI, 340.
- Allotta (Alatamu Kota), *Kurnool* (56 P/4; 16° 12' 30" : 79° 8'), gorge of Kistna. W. K., **M**, VIII, 29 (fig.).
- Allur, *Gulbarga* (56 H/1; 16° 58' : 77° 9'). Bhima beds, section. R. B. F., **M**, XII, 148 (fig.).
- Almilah, *Aden* (7 C/15; 13° 25' : 44° 49' 30"), Jurassic limestone. R. E. L., **R**, XXXVIII, 318.
- Almod, *Chhindwara* (55 J/7; 22° 23' : 78° 22'), carbonaceous shales. H. B. M., **M**, X, 159.
- Almora, *United Provs.* (53 O/10; 29° 36' : 79° 40'), graphito. H. B. M., **M**, III, pt. 2, 180; A. W. L., **R**, II, 87; gneiss. R. D. O., **R**, XVI, 162; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 202; 'silajit'. E. H. P., **M**, XL, 443.
- Alobaru (Alubera), *Santal Parganas* (72 P/6; 24° 32' : 87° 28'), kaolin. M. S., **R**, XXXVIII, 136.
- Alon, *L. Chindwin* (84 N/4; 22° 11' : 95° 6'), gold. H. S. B., **R**, XLIII, 250; basalt quarries. E. H. P., **R**, LXII, 32.
- Alpha mine, *Wynaad* (58 A/7; 11° 27' : 76° 24'), gold. F. H. H., **M**, XXXIII, pt. 2, 26 (Pls. v, vi).
- Altum-Artush, *E. Turkestan* (51 A/6; 39° 36' : 76° 21'), geology. F. S., **R**, VIII, 13.
- Alukthang (Olathang), *Sikkim* (78 A/2; 27° 32' 30" : 88° 11'), glacier. T. D. L., **R**, XL, 52 (Pls. xv-xx & xxv)=Aulakthang.
- Alumpoor, *Raichur* (57 I/1; 15° 52' 30" : 78° 8'), Koil-Kuntla limestone. W. K., **M**, VIII, 49.
- Alundanapuram (Alundalipur), *Trichinopoly* (58 I/16; 11° 3' : 78° 55'), irregular bedding, Trichinopoly stage. H. F. B., **M**, IV, 116 (Pl. iii).
- Alur, *Bellary* (57 E/3; 15° 24' : 77° 14'), gneissose granite. R. B. F., **M**, XXV, 64; enstatite-rock, 177.
- A-lu-shih, *Yunnan* (92 P/13; 24° 51' : 99° 59'), alluvial gold. J. C. B., **M**, XLVII, 155 (Pls. vii, viii).
- Alwani, *Persia* (10 E/3; 31° 30' : 49° 1'), Bakhtiyari sandstone. G. E. P., **M**, XXXIV, pt. 4, 77.
- Alwar, *Rajputana* (54 A/10; 27° 34' : 76° 36'), Alwar quartzites. C. A. H., **R**, X, 88; XIV, 287; Alwar series. A. M. H., **M**, XLV, 38-42; Kushalgarh limestone, 60; Ajabgarh quartzite, 81; rutile, 123; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 234.
- Amadi R., *Hoshangabad* (55 J/6; 22° 41' : 78° 26'), junction of Talchir and Bagra beds. H. B. M., **M**, X, 171 (Pl. i, fig. 3).
- Amadongri, *Rewah* (64 A/15; 23° 19' : 80° 56'), Karharbari plants. T. W. H. H., **M**, XXI, 175.
- Amadun, *Sibi* (34 N/7; 30° 29' : 67° 22'), doleritic conglomerate. W. T. B., **M**, XX, 142, 148.
- Amagarh, *Seoni* (55 N/12; 22° 0' 30" : 79° 37'), laterite. C. S. F., **M**, XLIX, 126.
- Amahputty (Ammapatti), *Trichinopoly* (58 I/12; 11° 6' 30" : 78° 36'), cotton-soil. W. K., **M**, IV, 353.

- Amakhob, *Jubbulpore* (64 A/4; 23° 12' : 80° 6'), Jabaipur-Lameta series. C. A. Matley, **R**, LIII, 149.
- Amaldiha, *Bilaspur* (64 N/2; 22° 37' : 83° 5'), Barakar sandstone. W. K., **R**, XVIII, 195.
- Amaljhar, *Rajpipla* (46 G/2; 21° 42' 30" : 73° 14' 30"), lateritic iron-ore. P. N. B., **R**, XXXVII, 183.
- Aman Kot, *Kohat* (38 K/15; 33° 17' 30" : 70° 53' 30"). Nummulitic series, section. A. B. W., **M**, XI, 208 (fig.).
- Amargarh, *Karauli* (54 B/11; 26° 15' : 76° 45'), Jhiri shales. F. R. M., **M**, VII, 71; Kaimur conglomerate. A. M. H., **M**, XLV, 154; fault, 171.
- Amarkantak, *Rewah* (64 F/14; 22° 40' : 81° 46'), bauxite. C. S. F., **M**, XLIX, 105, 147.
- Amarpoor, *Jubbulpore* (64 A/13; 23° 58' : 80° 54'), porcellanic beds, L. Vindhyan. F. R. M., **M**, VII, 37.
- Amarwar, *Karauli* (54 B/15; 26° 17' 30" : 76° 49'), fault-breccia. A. M. H., **M**, XLV, 170.
- Amarwara, *Chhindwara* (55 N/3; 22° 18' : 79° 10'), Deccan trap flows. C. S. M., **R**, XLV, 130.
- Amasranga, *Gangpur* (73 B/4; 22° 1' : 84° 11'), Dharwar conglomerate. E. H. P., **R**, LXIII, 85.
- Amb, *Shahpur* (38 P/14; 32° 30' 30" : 71° 56'), Cambrian-Eocene, section. A. B. W., **M**, XIV, 233 (Pl. xxvi, fig. 45); position of Red Marl. C. S. M., **R**, XXIV, 33 (Pl. iii, sects. 6, 7); oil seepage. E. H. P., **M**, XI, 434.
- Ambagarh, *Bhandara* (55 O/11; 21° 26' : 79° 40'), Chilpi quartzites. L. L. F., **M**, XXXVII, 313, 734.
- Ambaguta hill, *Adilabad* (56 M/15; 19° 23' : 79° 52'), Cuddapah and Sullavai beds. W. K., **M**, XVIII, 225, 233.
- Ambajheria hill, *Surguja* (64 N/5; 22° 55' : 83° 18'), aluminous laterite. C. S. F., **M**, XLIX, 154.
- Ambajhiri, *Chhindwara* (55 K/13; 21° 50' : 78° 50'), crystalline limestone. P. N. D., **R**, XXXIII, 223.
- Ambala, *Punjab* (53 B/15; 30° 22' : 76° 47'), boring for water. H. B. M., **R**, XIV, 232; XVIII, 116; E. L. C., **R**, LX, 303 (Pl. xxiv); Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 194=Umbala.
- Ambapur Nagla (? Nagla Amarapur), *Aligarh* (54 I/2; 27° 37' 30" : 78° 4' 30"), meteorite. J. C. B., **M**, XLIII, 163.
- Ambara, *Chhindwara* (55 J/12; 22° 11' : 78° 41'), colliery. J. C. B., **R**, LVII, 61.
- Ambawadi, *Kolhapur* (47 H/13; 16° 52' : 73° 57'), aluminous laterite. H. C. J., **R**, LIV, 425.
- Amber, *Jaipur* (45 N/13; 26° 59' : 75° 51'), roofing flags. C. A. H., **R**, X, 92; syncline, Ajabgarh series. A. M. H., **R**, LIV, 368.
- Ambera, *Surguja* (64 M/4; 23° 3' 30" : 83° 3'), coal seam. V. B., **R**, XV, 109.
- Ambevadi hill, *Belgaum* (48 I/6; 15° 31' : 74° 28'), bauxite. C. S. F., **M**, XLIX, 73.
- Ambikanagar, *Bankura* (73 J/13; 22° 57' : 86° 46'), hematite. V. B., **M**, XVIII, 77.

- Amboli Ghat, *Savantvadi* (48 E/13; 15° 58' : 74° 0'), trap flows. R. B. F., **M**, XII, 177.
- Ambur, *N. Arcot* (57 L/9; 12° 47' : 78° 43'), granitoid gneiss. R. B. F., **R**, XII, 191; charnockite. E. H. P., **R**, LXI, 123.
- Amda, *Kharsawan* (73 F/14; 22° 44' 30" : 85° 48'), granite-gneiss. J. A. D., **M**, LIV, 83, 107.
- Amdah (Wadi), *Oman* (26 I/7; 23° 16' : 58° 28'), quartzites, Oman series. G. E. P., **M**, XXXIV, pt. 4, 93.
- Amdari, *Rewah* (64 A/11; 23° 28' 30" : 80° 36'), fire-clay. F. R. M., **R**, XVI, 114; pottery clay. XXII, 142.
- Amerumbodo (Amarambedu), *Chingleput* (66 C/3; 13° 24' : 80° 1'), stone implements. R. B. F., **M**, X, 47.
- Amgaon, *N. Kanara* (48 I/12; 15° 7' 30" : 74° 37'), manganese-ore. E. H. P., **R**, LX, 47.
- Amghat, *Gangpur* (73 B/11; 22° 15' : 84° 37'), limestone. E. H. P., **R**, LXII, 57.
- Amhar, *Korea* (64 I/7; 23° 29' : 82° 29'), coal seam. T. W. H. H., **M**, XXI, 201, 236.
- Amherst, *Burma* (94 H/12; 16° 4' 30" : 97° 34'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 237.
- A-mi Chou, *Yunnan* (102 M/6; 23° 41' 30" : 103° 17'), coalfield. J. C. B., **M**, XLVII, 63.
- Amia (Amiyan), *Naini Tal* (53 O/11; 29° 17' 30" : 79° 35' 30"), granulitic rock, petrology. C. S. M., **R**, XXIII, 33.
- Amilia, *Rewah* (63 L/8; 24° 2' : 82° 25'), coal seam. R. R. S., **M**, XLI, 79 = Amlia.
- Amingarh, *Bijapur* (47 P/16; 16° 3' : 75° 58'), L. Kaladgi beds, section. R. B. F., **M**, XII, 78; hematite beds, 51; **R**, XXII, 30.
- Amir, *Jaisalmer* (40 N/1; 27° 0' : 71° 4'), sub-recent conglomerate. R. D. O., **R**, XIX, 160.
- Amir-Chah, *Chagai* (30 K/8; 29° 13' : 62° 28'), andesite. T. H. H., **R**, XXX, 128; hippuritic limestone. E. V., **M**, XXXI, 249 (Pl. ix, fig. 10).
- Amjhari, *Santal Parganas* (72 P/6; 24° 31' : 87° 26' 30"), kaolin. M. S., **R**, XXXVIII, 136.
- Amla, *Betul* (55 K/1; 21° 55' : 78° 8'), Deccan trap boundary. H. H. H., **R**, XLIII, 35.
- Amlamal, *Jhabua* (46 I/8; 23° 0' : 74° 25'), manganese-ore. L. L. F., **M**, XXXVII, 689.
- Amlei, *Rewah* (64 E/12; 23° 11' 30" : 81° 35'), coal seam. T. W. H. H., **M**, XXI, 182; R. R. S., **M**, XLI, 78; section. G. F. R., **A. R.** 1900, 70.
- Amlia, *Rewah* (63 L/8; 24° 2' : 82° 25'), coal seams. C. L. G., **R**, XXVIII, 117; XXIX, 3 = Amilia.
- Amliaha, *Rewah* (64 E/7; 23° 20' 30" : 81° 24'), fossil plants. T. W. H. H., **M**, XXI, 189.
- Amlipura, *Amjhera* (46 J/15; 22° 24' 30" : 74° 53'), Cretaceous oyster bed. P. N. B., **M**, XXI, 33.
- Ammachattram, *Pudukkottai* (58 J/14; 10° 31' 30" : 78° 46' 30"), banded granite-gneiss. R. B. F., **R**, XII, 144.



- Ammagudi, *Tanjore* (58 J/16; 10° 12' 30" : 78° 57'), Cuddalore sandstones. R. B. F., **M**, XX, 37.
- Ammanayakanur, *Madura* (58 F/16; 10° 10' : 77° 55'), quartz-rock. R. B. F., **M**, XX, 17; quartz veins, 33.
- Ammersenpatti (Ummudisanpatti), *Ramnad* (58 K/9; 9° 55' : 78° 36'), U. Gondwana shales. R. B. F., **R**, XII, 147; **M**, XX, 34.
- Ammo Chu, *Tibet* (78 E/2; 27° 40' : 89° 0'), granite. H. H. H., **R**, XXXII, 161; Khongbu series. **M**, XXXVI, 141.
- Amochh, *Jubbulpore* (64 A/2; 23° 34' : 80° 10' 30"), laterite. C. S. F., **M**, XLIX, 114.
- Amoda, *Narsinghpur* (55 M/8; 23° 6' : 79° 20'), Vindhyan boundary fault. F. R. M., **M**, VII, 75.
- Amran, *Kathiawar* (41 J/9; 22° 50' : 70° 33'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 110.
- Amraoti, *Berar* (55 H/9; 20° 56' : 77° 45'), water-supply. E. H. P., **R**, LIII, 14; LIV, 33; LX, 63=Oomrawuttee.
- Amrnath (Amarnath), *Kashmir* (43 N/8; 34° 13' : 75° 29'), Triassic dolomite. R. L., **R**, XI, 44; ice cave. **M**, XXII, 41.
- Amrapura, *Santal Parganas* (72 P/10; 24° 31' : 87° 34'), Rajmahal plants. O. F., **R**, IX, 39.
- Amratpur, *Naini Tal* (53 O/11; 29° 17' 30" : 79° 34'), Himalayan boundary fault. C. S. M., **M**, XXIV, 158; igneous rocks. **R**, XXIII, 25.
- Amravaram, *Warangal* (65 G/2; 17° 36' : 81° 0' 30"), Barakar sandstone. W. T. B., **R**, IV, 114.
- Amritsar, *Punjab* (44 I/14; 31° 38' : 74° 51'), boring for water. T. D. L., **R**, XL, 105; Kangra earthquake, 1905; C. S. M., **M**, XXXVIII, 151 (figs. & Pl. xxv).
- Amrounea, *Bijawar* (54 P/10; 24° 38' : 79° 41'), Bijawar breccia. H. B. M., **M**, II, 38.
- Amsot, *Dehra Dun* (53 F/11; 30° 23' : 77° 41'), Siwalik conglomerate. H. B. M., **M**, III, pt. 2, 119.
- Amtiar R., *Dehra Dun* (53 F/14; 30° 43' : 77° 47'), Deoban limestone. G. E. P., **M**, LIII, 44.
- Amua, *Maihar* (63 D/8; 24° 1' : 80° 28' 30"), goodetic station. R. D. O., **M**, XLII, 213.
- Amuari, *Rewah* (64 E/3; 23° 18' : 81° 3'), coal seam. T. W. H. H., **M**, XXI, 171.
- Amurchat (Amulchat), *Yasin* (42 H/6; 36° 33' 30" : 73° 25'), granite. H. H. H., **R**, XLV, 295.
- Amwi (? Umwai), *Khasi Hills* (78 O/12; 25° 13' 30" : 91° 42'), coal seam. R. R. S., **M**, XLI, 25.
- Amya, *Taroy* (95 O/1; 13° 49' : 99° 0'), granite. J. C. B., **M**, XLIV, 186.
- An, *Kyaukpypu* (85 I/1; 19° 47' : 94° 2'), oil seepage. E. H. P., **M**, XL, 197.
- Anagarachuttrum (Anikkaranchattram), *Tanjore* (58 M/11; 11° 20' : 79° 43'), sand dunes. W. K., **M**, IV, 249.
- Anagundi, *Raichur* (57 A/7; 15° 21' : 76° 30'), gneissose granite. R. B. F., **M**, XXV, 54.

- Anaikattu, *N. Arcot* (57 L/13; 12° 52' 30" : 78° 59'), quartz-felsite. E. H. P., R, LXI, 123.
- Anand, *Kaira* (46 B/14; 22° 33' : 72° 58'), earthquake, 1897, time record. R. D. O., M, XXIX, 66, 71.
- Anandapur, *Singhbhum* (73 F/3; 22° 28' : 85° 10'), gold. V. B., M, XVIII, 143.
- Anangamala, *Malabar* (58 B/5; 10° 49' : 76° 23'), dyke. P. L., M, XXIV, 216.
- Anantapoor, *Cuddapah* (57 J/1; 14° 45' 30" : 78° 9' 30"), Tadpatri limestone. W. K., M, VIII, 191.
- Anantapur, *Shinoga* (48 N/4; 14° 4' 30" : 75° 13'), manganese-ore. L. L. F., M, XXXVII, 1134.
- Anantaram, *Warangal* (65 C/6; 17° 41' 30" : 80° 96'), Cuddapah limestone. W. K., M, XVIII, 214.
- Anantawaram, *Atruf-i-Balda* (56 K/3; 17° 19' 30" : 78° 2'), Lameta fossils. E. H. P., R, LVI, 49.
- Anaram, *Adilabad* (56 N/13; 18° 54' 30" : 79° 56' 30"), Rajmahal plants. W. K., R, X, 61; XIII, 15; M, XVIII, 278, 289.
- Anaskura, *Kohlapur* (47 H/13; 16° 47' : 73° 48'), dam-site. C. S. F., M, XLIX, 81.
- Anaval, *Dharampur* (46 H/5; 20° 50' : 73° 16'), hot springs. T. O., M, XIX, 109.
- Andao, *Afghanistan* (33 M/15; 35° 20' : 67° 51' 30"), Cretaceous limestone. H. H. H., M, XXXIX, 66; fossils. H. S. B., R, LVI, 265, 268, 269.
- Andarab (district), *Afghanistan* (38 E/N. W.; 35° 37' : 69° 30'), Saighan and Red Grit series. H. H. H., M, XXXIX, 62, 65.
- Andhara (Ujhari, *Muzaffarpur* (72 F/6; 26° 34' : 85° 26'), meteorite. L. L. F., R, XXXV, 92.
- Andhari Bagh, *Indore* (55 B/3; 22° 24' : 76° 14'), fault-breccia. W. T. B., M, VI, 259; P. N. B., M, XXI, 15.
- Andhazitoli, *Gangpur* (73 R/11; 22° 20' 30" : 84° 34' 30"), manganese-ore. E. H. P., R, LXII, 58.
- Andhi, *Jainpur* (54 A/4; 27° 3' : 76° 10'), Raialo quartzite and limestone. C. A. H., R, X, 85.
- Andhi hill, *Rewah* (63 H/3; 24° 28' : 81° 0' 30"), aluminous laterite. C. S. F., M, XLIX, 106.
- Andipaliam, *S. Arcot* (57 P/16; 12° 2' 30" : 79° 46'), Cretaceous beds. H. W., R, XXVIII, 16.
- Andiyappanur, *N. Arcot* (57 L/10; 12° 32' : 78° 42'), quartz-barytes rock. T. H. H., R, XXX, 237; allanite (?). C. S. M., A. R., 1898, 19.
- Andoor, *Trichinopoly* (58 M/3; 11° 15' : 79° 1' 30"), Cretaceous fossils. H. F. B., M, IV, 121.
- Andor, *Sirohi* (45 C/16; 25° 2' : 72° 52'), rhyolitic tuffs. E. H. P., R, LX, 114.
- Andraghach, *Chitral* (42 D/11; 36° 29' 30" : 72° 31'), orpiment mines. L. L. F., R, LIV, 17.
- Androt, *Punch* (43 G/9; 33° 50' : 73° 40'), Siwalik beds. D. N. W., M, LI, 274, 331.
- Anegwadi, *Bijapur* (47 P/12; 16° 14' : 75° 37'), sub-recent conglomerate. R. B. F., M, XII, 241.

- Angadipuram, *Malabar* (58 B/1; 10° 58' 30" : 76° 12'), iron-ore. P. L., **M**, XXIV, 228.
- Angara-Khyong, *Akyab* (85 E/1; 20° 0' : 93° 9'), coal seams. R. R. S., **M**, XLI, 66.
- Ango, *Hazaribagh* (73 E/2; 23° 44' 30" : 85° 13'), Talchirs. A. J., **M**, LII, 15; Panchet series, 135.
- Angur, *Bellary* (48 N/13; 14° 57' : 75° 46'), potstone. R. B. F., **M**, XXV, 35, 203.
- Anguru, *Persia* (18 M/15; 27° 16' : 55° 53'), extrusion of Hormuz salt. G. E. P., **M**, XLVIII, pt. 2, 47 (fig.).
- Angwali, *Hazaribagh* (73 E/14; 23° 44' : 85° 59'), fault. T. W. H. H., **M**, VI, 48, 67.
- Anhoni, *Chhindwara* (55 J/10; 22° 36' : 78° 36'), hot springs. T. O., **M**, XIX, 135; L. L. F., **R**, L, 294—Anoni Dhana.
- Anhoni (Anhoni Sameni), *Hoshangabad* (55 J/6; 22° 38' : 78° 21'), Denwa beds. H. B. M., **M**, X, 153; boundary of Gondwanas, 172; hot springs. T. O., **M**, XIX, 135; L. L. F., **R**, L, 294.
- Ani, *Korea* (64 I/11; 23° 17' 30" : 82° 35'), quartz crystals. L. L. F., **M**, XLI, 162.
- Ani Sakan, Anisekan, *Mandalay* (93 C/5; 21° 59' : 96° 24'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 88; Burma earthquakes, 1912, J. C. B., **M**, XLII, 33, 118; aftershocks, 128, 129.
- Anjan R., *Hoshangabad* (55 J/5; 22° 45' : 78° 28'), boring for coal. H. B. M., **R**, XII, 97; E. J. J., **M**, XXIV, 11, 12; boundary of Bagra beds. H. B. M., **M**, X, 169 (Pl. i, fig. 2).
- Anjar, *Cutch* (41 I/4; 23° 7' : 70° 1' 30"), earthquake, 1819. R. D. O., **M**, XLVI, 108, 109.
- Anjengo, *Travancore* (58 D/14; 8° 40' : 76° 46'), monazite sands. G. H. T., **R**, XLIV, 187.
- Anjira, *Kalat* (34 L/7; 28° 19' : 66° 19' 30"), barytes. G. H. T., **R**, XXXVIII, 214.
- Anjuman Kotal, *Afghanistan* (38 I/1; 35° 47' : 70° 8'), water-parting. H. H. H., **M**, XXXIX, 6.
- Ankora, *Adilabad* (56 M/11; 19° 24' : 79° 35'), Deccan trap. W. K., **M**, XVIII, 296.
- Anksi hill, *Palamau* (73 A/2; 23° 31' : 84° 6'), bauxite. E. S. F., **M**, XLIX, 166.
- Ankua Buru, *Singbhum* (73 F/3; 22° 20' : 85° 14'), auriferous quartz. T. H. H., **A. R.**, 1903, 12; J. M. M., **R**, XXXI, 86, 90; L. L. F., **R**, LIII, 269.
- Anmod, *N. Kanara* (48 I/7; 15° 26' : 74° 18' 30"), manganese-ore. E. H. P., **R**, LXI, 64.
- An-nan-kuang, *Yunnan* (101 C/15; 25° 24' : 100° 49'), Permo-Triassic beds. J. C. B., **R**, LIV, 83.
- Annapaudy (Anaipadi), *Trichinopoly* (58 I/16; 11° 6' : 78° 56' 30"), Cretaceous fossils. H. F. B., **M**, IV, 118.
- Annavassel, *Pudukkottai* (58 J/11; 10° 28' : 78° 42'), quartzose gneiss. R. B. F., **R**, XII, 145.

- An-ning Chou, *Yunnan* (101 L/5;  $24^{\circ} 56' : 102^{\circ} 29' 30''$ ), Permo-Carboniferous fossils. J. C. B., R, XLIV, 110; Permo-Triassic beds, 114; brine wells. M, XLVII, 178.
- Anoni-Dhana, *Chhindwara* (55 J/10;  $22^{\circ} 36' : 78^{\circ} 36'$ ), hot spring. O. F., R, XII, 75 (note) = Anhoni.
- Ans R., *Jammu* (43 K/15;  $33^{\circ} 18' : 74^{\circ} 50'$ ), coal. R. L., M, XXII, 332; R. R. S., M, XLI, 101.
- Antabera, *Ranchi* (73 F/13;  $22^{\circ} 57' 30'' : 85^{\circ} 46' 30''$ ), agglomerate, Iron Ore series. J. A. D., M, LIV, 75.
- Antagar, *Bastar* (64 H/4;  $20^{\circ} 6' : 81^{\circ} 9' 30''$ ), sub-metamorphic rocks. P. N. B., A, R, 1899, 37.
- Antalia, *Mewar* (45 G/16;  $25^{\circ} 12' 30'' : 73^{\circ} 45' 30''$ ), basement quartzite, Delhi system. L. L. F., R, LXV, 134.
- Antarda, *Bundi* (54 C/2;  $25^{\circ} 39' : 76^{\circ} 6'$ ), Kaimur sandstone. A. L. C., R, LX, 168; Vindhyan boundary fault, 186.
- Antargaon, *Adilabad* (56 M/6;  $19^{\circ} 32' : 79^{\circ} 29'$ ), coal seam. T. W. H. H., M, XIII, 63; W. K., M, XVIII, 179; R. R. S., M, XLI, 100.
- Anthri, *Idar* (45 H/4;  $24^{\circ} 0' 30'' : 73^{\circ} 10'$ ), Delhi quartzite. C. S. M., M, XLIV, 82.
- Antri, *Gwalior* (54 J/4;  $26^{\circ} 3' : 78^{\circ} 13'$ ), kaolin. T. D. L., R, XI, 113.
- Antri, *Patiala* (54 A/1;  $27^{\circ} 56' : 76^{\circ} 6'$ ), marble. P. N. B., R, XXXIII, 59.
- Anu, *Simla* (53 E/3;  $31^{\circ} 16' : 77^{\circ} 3'$ ), hydro-electric project. L. L. F., R, LIV, 22.
- Anu (Ona), *Jaunsar* (53 F/13;  $30^{\circ} 52' : 77^{\circ} 49'$ ), ankerite. R. D. O., R, XVI, 194; L. L. F., M, XXXVII, 122.
- Anukpur (Anuppur), *Rewah* (64 F/12;  $23^{\circ} 6' : 81^{\circ} 41' 30''$ ), Talchir plants. T. W. H. H., R, XIV, 312.
- Anuntasagam, *Medak* (56 G/14;  $17^{\circ} 33' 30'' : 77^{\circ} 57'$ ), augite-diorite dyke. H. H. H., R, XLVIII, 22.
- Anur, *Adilabad* (56 M/10;  $19^{\circ} 32' : 79^{\circ} 30' 30''$ ), Kamthi plants. T. W. H. H., M, XIII, 70, 80; W. K., M, XVIII, 252.
- Anwar (Handwar), *Jaipur* (54 C/5;  $25^{\circ} 53' 30'' : 76^{\circ} 21'$ ), pseudo-unconformity. A. M. H., M, XLV, 137 (fig.).
- Anyappa, *Taroy* (95 J/8;  $14^{\circ} 4' : 98^{\circ} 20'$ ), wolfram mine. J. C. B., M, XLIV, 306.
- Ao Dakai Kotal, *Afghanistan* (38 C/14;  $33^{\circ} 36' : 68^{\circ} 47'$ ), Tertiary rocks. C. L. G., R, XXV, 77.
- Ao Dara, *Afghanistan* (33 M/8;  $35^{\circ} 5' : 67^{\circ} 26'$ ), Fusulina limestone. H. H. H., M, XXXIX, 28; U. Tertiary conglomerate, 59; Doab series, 51.
- Aodam, *Adilabad* (56 N/9;  $18^{\circ} 58' : 79^{\circ} 37'$ ), Kamthi beds. W. K., M, XVIII, 254.
- Aoli, *Jeypore* (65 I/12;  $19^{\circ} 11' : 82^{\circ} 33'$ ), Cuddapah shales. T. L. W., A R, 1900, 172.
- Apharwat, *Kashmir* (43 J/8;  $34^{\circ} 2' : 74^{\circ} 20'$ ), Gondwana beds. D. N. W., M, LI, 144, 247.
- Appianhalli, *Sandur* (57 B/9;  $14^{\circ} 59' 30'' : 76^{\circ} 40'$ ), Dharwar beds, section. R. B. F., M, XXV, 116.
- Ara, *Jhelum* (43 H/1;  $32^{\circ} 46' : 73^{\circ} 13'$ ), *Flemingostrea*. E. V., R, XLVII, 202; water-supply. E. H. P., R, LXIII, 76.

- Ara, *Surguja* (64 M/8; 23° 12' : 83° 20' 30"), limestone with tremolite. V. B., R, VI, 41.
- Ara Buru, *Singhbhum* (73 J/10; 22° 30' 30" : 86° 30' 30"), mineral related to xenotime. G. H. T., R, LI, 31 (Pl. ii); iron-ore. J. A. D., M, LIV, 163.
- Arabi I., *Persian Gulf* (11 I/1; 27° 47' : 50° 10'), littoral concrete. G. E. P., M, XXXIV, pt. 4, 143.
- Araguda, *Jeypore* (65 J/1; 18° 46' : 82° 8'), Cuddapah limestone. T. L. W., A. R., 1900, 172, 175.
- Arahanga, *Ranchi* (73 F/13; 22° 53' 30" : 85° 51'), feather amphibolite. J. A. D., M, LIV, 59.
- Arahara, *Hazaribagh* (73 E/1; 23° 53' : 85° 13' 30"), coal seam. T. W. H. II., M, VII, 306; A. J., M, LII, 26 (figs.); Barakar plants. O. F., R, XIV, 246.
- Arai, *Punch* (43 K/5; 33° 47' 30" : 74° 16' 30"), Dogra schists. D. N. W., M, LI, 229.
- Araini, *Jaipur* (54 F/2; 26° 41' : 77° 10'), Bhander stage, section. F. R. M., M, VII, 98.
- Arakalgud, *Hassan* (57 D/1; 12° 46' : 76° 3'), mica. T. H. H., M, XXXIV, 68.
- Arakkaparamba, *Malabar* (58 B/5; 10° 59' : 76° 19'), iron-ore. P. L., M, XXIV, 228, 237.
- Araku, *Pottangi* (65 J/15; 18° 20' : 82° 51'), diopside-rock. T. L. W., A. R., 1900, 171.
- Aram, *N. Shan States* (93 E/4; 23° 0' : 97° 9'), Chaung Magyi series, boundary. J. C. B., R, XLVIII, 138.
- Arang, *Punch* (43 K/6; 33° 41' 30" : 74° 24'), Agglomerate slate. D. N. W., M, LI, 310.
- Arang, *Raipur* (64 G/16; 21° 12' : 81° 58') Vindhyan boundary. V. B., R, X, 179; W. K., R, XVIII, 174.
- Aranganur, *Pondicherry* (58 M/13; 11° 50' : 79° 45'), lignite. W. K., R, XVII, 194; R. R. S., M, XLI, 103.
- Arapur, *Palamau* (72 D/4; 24° 14' : 84° 2'), graphite. L. L. F., R, LXV, 50.
- Arar, *Jhelum* (43 D/14; 32° 44' : 72° 53'), boring for coal. H. H. H., R, XLII, 73; L. L. F., R, XLVI, 70.
- Arauli, *Ratmagiri* (47 G/11; 17° 19' : 73° 31' 30"), hot spring. T. O., M, XIX, 105.
- Aravi (Adwi) Somnapalli, *Karimnagar* (56 N/14; 18° 37' 30" : 79° 48'), Kamthi beds. W. K., M, XVIII, 255.
- Arawad (Unabdev), *E. Khandesh* (46 O/7; 21° 16' : 75° 26'), hot spring. W. T. B., M, VI, 288; T. O., M, XIX, 135.
- Arbela range, *Garro Hills* (78 K/6; 25° 34' : 90° 20'), earthquake, 1897, landslips. R. D. O., M, XXIX, 118; fault-scarp, 136 (fig.).
- Archiwakum (Arachchikkupam), *Pondicherry* (58 M/13; 11° 47' : 79° 45' 30"), Artesian well. W. K., R, XIII, 196.
- Arda Kotal, *Afghanistan* (38 C/10; 33° 36' : 68° 44'), Tertiary rocks. C. L. G., R, XXV, 77.
- Ardewan pass, *Afghanistan* (29 J/2; 34° 43' : 62° 9'), Red Grit series, Cretaceous. C. L. G., R, XIX, 58.

- Ardium, *Chanda* (65 B/2; 18° 44' : 80° 5'), Kota limestone. W. K., R, XIII, 19; fault. M, XVIII, 260.
- Arenda, *Karimnagar* (56 N/14; 18° 41' : 79° 48' 30") upper limit of Kamthis. T. W. H. H., R, XI, 24.
- Arghandi, *Afghanistan* (38 B/15; 34° 28' : 68° 56'), crystalline rocks. H. H. H., M, XXXIX, 17.
- Arhanga pass, *Tirah* (38 K/13; 33° 46' : 70° 48'), Cretaceous beds, section. H. H. H., M, XXVIII, 103 (Pl. v, fig. 2).
- Ariankupam, *Pondicherry* (58 M/13; 11° 53' 30" : 79° 48' 30"), Artesian well. W. K., R, XIII, 195.
- Arigam, *Kashmir* (43 K/9; 33° 56' : 74° 41'), 'erratics'. H. H. H., R, XLIX, 38; monocline in Karewas. C. S. M., R, LV, 243.
- Ariyanur, *Salem* (58 I/2; 11° 36' : 78° 4'), potstone. C. L. G., R, XXVIII, 87.
- Arjanguta, *Adilabad* (56 N/13; 18° 52' : 79° 58'), Anaram beds. W. K., R, XIII, 15.
- Arjipura, *Bundi* (45 O/14; 25° 31' : 75° 54'), L. Rewah beds. A. L. C., R, LX, 171; U. Vindhyan, section, 189 (fig.).
- Arjoni, *Balaghat* (55 O/14; 21° 44' 30" : 79° 53'), manganese-ore. L. L. F., M, XXXVII, 706.
- Arjuna, *Yeotmal* (56 I/13; 19° 50' : 78° 48'), hot spring. T. O., M, XIX, 144.
- Arjunjhir, *Seoni* (55 N/15; 22° 17' 30" : 79° 56'), Deccan trap dykes. C. S. M., R, XLV, 134.
- Arkadu, *S. Arcot* (58 M/5; 11° 56' : 79° 19' 30"), pseudo-conglomerate in granitoid gneiss. W. K., M, IV, 301.
- Arkal, *Bellary* (57 E/6; 15° 39' 30" : 77° 22'), rock shelters. R. B. F., M, XXV, 71.
- Arkasani hill, *Kharsawan* (73 F/13; 22° 46' : 85° 51'), granite-gneiss. J. A. D., M, LII, 99 = Akarsani hill.
- Arki, *Simla* (53 A/16; 31° 9' : 76° 58'), galena, assay. G. S. L., A. R., 1898, 5; R, XXX, 258 = Erki.
- Arkonam, *N. Arcot* (57 O/12; 13° 5' : 79° 40'), borings for coal. R. R. S., M, XLI, 104; charnockite. E. H. P., R, LXII, 149.
- Arnia, *Mandasor* (45 K/8; 25° 8' : 74° 20'), Aravalli granite. L. L. F., R, LXV, 141.
- Aror, *Sukkur* (40 A/14; 27° 39' : 68° 56'), old channel of Indus. W. T. B., M, XVII, 106; rock-salt. C. L. G., R, XXVIII, 88; XXIX, 7.
- Arrah, *Shahabad* (72 C/10; 25° 33' : 84° 41'), geodetic station. R. D. O., M, XLII, 226.
- Arrakeri, *Bijapur* (47 P/11; 16° 17' : 75° 30' 30"), L. Kaladgi shales. R. B. F., M, XII, 127; U. Kaladgi syncline, 133.
- Arranalli, *Raichur* (56 H/8; 16° 2' : 77° 15'), dioritic breccia. R. B. F., M, XII, 62.
- Arrantangi, *Tanjore* (58 J/16; 10° 10' : 78° 59'), laterite. R. B. F., M, XX, 46.
- Arrialoor (Ariyalur), *Trichinopoly* (58 M/4; 11° 8' : 79° 4'), Cretaceous fossils. H. F. B., M, IV, 134.
- Arsapur, *Dellary* (57 B/2; 14° 39' : 76° 1'), potstone. R. B. F., M, XXV, 33, 34, 204.

- Arsena, *Bilaspur* (64 J/14; 22° 40' : 82° 51' 30"), Talchir boulder beds. W. K., R, XVIII, 192.
- Aruppukotai, *Rannad* (58 K/2; 9° 31' : 78° 6'), gneissose granite. R. B. F., M, XX, 20, 99.
- Arzanah I., *Persian Gulf* (18 D/9; 24° 47' : 52° 34'), volcanic rocks, Hormuz series. G. E. P., M, XXXIV, pt. 4, 143.
- Asai hill, *Idar* (46 E/1; 23° 55' : 73° 0'), calc-gneiss. C. S. M., M, XLIV, 18; granite-aplite, 35.
- Asalpani, *Bhandara* (55 O/11; 21° 29' 30" : 79° 40'), rhodonite. L. L. F., M, XXXVII, 141, 346; dendrites, 397; manganese-ore 763 (fig.).
- Asalu, *Cachar* (83 G/4; 25° 11' : 93° 11'), brine pool. H. B. M., M, IV, 415; Cachar earthquake, 1869. T. O., M, XIX, 37.
- Asambya, *Cutch* (41 F/5; 22° 58' : 69° 27'), Deccan trap. W. T. B., M, VI, 21.
- Asansol, *Burdwan* (73 I/14; 23° 41' : 86° 59'), colliery. W. T. B., M, III, 107; Panchet beds, section, 130; fossil tree. E. J. B., R, LVIII, 75 (Pl. i); C. S. F., R, LX, 365 (Pl. xxx) = Assensolo.
- Asantoria (Asantalia), *Kharsawan* (73 F/14; 22° 44' : 85° 47' 30"), alluvial gold. V. B., M, XVIII, 142 = Assuntilela.
- Asarori, *Dehra Dun* (53 F/16; 30° 15' : 77° 58' 30"), geodetic station. R. D. O., M, XLII, 240.
- Ashawa, *Afghanistan* (38 E/4; 35° 7' : 69° 11'), Kalu series. H. H. H., M, XXXIX, 23; Hajigak hematite bed, 25, 47.
- Ashna Ghara, *Quetta-Pishin* (34 N/10; 30° 36' : 67° 32'), Triassic fossils. E. V., R, XXXI, 166.
- Ashni R., *Simla* (53 F/1; 30° 57' : 77° 9'), Jaunsar series, section. G. E. P., M, LIII, 22 (fig.); inlier of Blaini beds, 85; Chail series, 89, 90.
- Ashreth, *Chitral* (38 M/11; 35° 25' 30" : 71° 45'), limestone and slate. H. H. H., R, XLV, 277.
- Asilpur Ry. Stn., *Jaipur* (45 N/5; 26° 54' : 75° 25' 30"), augen-gneiss. A. M. H., R, LIV, 353.
- Aska, *Ganjam* (74 A/10; 19° 37' : 84° 40'), kersantite. F. H. S., A. R., 1900, 160.
- Askoli, *Ladakh* (43 M/14; 35° 41' : 75° 49'), garnets. R. L., R, XIV, 14; M, XXII, 315.
- Askot, *Almora* (62 C/5; 29° 46' : 80° 20'), copper-ore. T. H. H., R, XXXV, 35.
- Asmai, *Afghanistan* (38 F/2; 34° 31' : 69° 9'), metamorphic rocks. C. L. G., R, XXV, 74; hornblende-biotite-schist. H. H. H., M, XXXIX, 17.
- Asmatti, *Belgaum* (48 M/6; 15° 45' : 75° 18'), trap flow. R. B. F., M, XII, 61; R, XXI, 49; J. M. M., R, XXXIV, 99, 115.
- Asnapetta (Hasanamapettai), *N. Arcot* (57 P/10; 12° 45' : 79° 31' 30"), SripERMatur beds. R. B. F., R, XII, 202.
- Asnot, *Jhelum* (43 H/5; 32° 49' : 73° 19' 30"), M. Siwalik vertebrates. R. L., R, IX, 101; X, 81; A. B. W., R, X, 120; G. E. P., R, XL, 64; *Lamellidens*. B. P., R, LXIII, 432 (Pl. xix, figs. 10, 11) = Hasnot.
- Asola, *Chanda* (55 P/16; 20° 13' : 79° 49'), iron-ore. P. N. D., R, XXXVIII, 309.

- Asrang, *Spiti* (53 I/6;  $31^{\circ} 40' : 78^{\circ} 19'$ ), staurolite-schist. H. H. H., **M**, XXXVI, 9, 11; biotite-granite, 97.
- Assandiah, *Surguja* (64 I/13;  $23^{\circ} 49' 30'' : 82^{\circ} 50'$ ), trap dyke. C. L. G., **M**, XV, 154 (Pl. i, fig. 2).
- Assaralli, *Chanda* (65 B/2;  $18^{\circ} 44' : 80^{\circ} 12'$ ), Kota limestone. W. K., **R**, XIII, 19.
- Asseergurh (Asirgarh), *Betul* (55 J/3;  $22^{\circ} 16' : 78^{\circ} 9'$ ), Mahadeva escarpment. J. G. M., **M**, II, 229.
- Assensole, *Burdwan* (73 I/14;  $23^{\circ} 41' : 86^{\circ} 59'$ ), Raniganj plants. O. F., **R**, X, 75 = Asansol.
- Assuntitlea (Asantalia), *Kharsawan* (73 F/14;  $22^{\circ} 44' : 85^{\circ} 47' 30''$ ), alluvial gold. V. B., **R**, II, 11 = Asantoria.
- Astangi, *Kalat* (34 N/8;  $30^{\circ} 6' : 67^{\circ} 18'$ ), coal seams. R. R. S., **M**, XLI, 35.
- Astarab (district), *Afghanistan* (33 E/N. E.;  $35^{\circ} 45' : 65^{\circ} 45'$ ), Jurassic plant beds. C. L. G., **R**, XIX, 251; Cretaceous beds, 253; H. H. H., **M**, XXXIX, 36.
- Astoli, *Bundi* (45 O/11;  $25^{\circ} 26' : 75^{\circ} 35'$ ), U. Vindhyan, section. A. L. C., **R**, LX, 174 (fig.).
- Astor, *Gilgit* (43 I/15;  $35^{\circ} 21' : 74^{\circ} 52'$ ), 'central gneiss'. R. L., **R**, XIV, 5; **M**, XXII, 308; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 187.
- Ataabad, *Hunza* (42 L/15;  $36^{\circ} 19' 30'' : 74^{\circ} 49'$ ), crystalline limestone. H. H. H., **R**, XLV, 297.
- Atari, *Puri* (73 H/8;  $20^{\circ} 12' : 85^{\circ} 30'$ ), hot spring, sulphurous. L. L. F., **R**, LIII, 292 = Oteri.
- Atarra, *Banda* (63 C/11;  $25^{\circ} 17' : 80^{\circ} 34'$ ), meteorite. G. V. H., **R**, LX, 131 (Pls. ii, iii).
- Atauli, *Punch* (43 K/5;  $33^{\circ} 49' : 74^{\circ} 15'$ ), Nummulitic limestone. D. N. W., **M**, LI, 306.
- Atchamapett, *Cuddapah* (57 N/3;  $14^{\circ} 19' : 79^{\circ} 5'$ ), folding in Nallamalai beds. W. K., **M**, VIII, 215.
- Atchammapetta, *Guntur* (65 D/2;  $16^{\circ} 38' : 80^{\circ} 7'$ ), Cuddapah quartzite dome. R. B. F., **M**, XVI, 48 = Achammapetta.
- Atchraol, *Jaipur* (45 M/16;  $27^{\circ} 8' : 75^{\circ} 57'$ ), anticline, Ajabgarh series. A. M. H., **R**, LIV, 363.
- Atem R., *Surguja* (64 J/9;  $22^{\circ} 59' : 82^{\circ} 42'$ ), coal seam. R. R. S., **M**, XLI, 82.
- Atgarh, *Eastern States* (73 H/10;  $20^{\circ} 32' : 85^{\circ} 38'$ ), U. Gondwana sandstones. W. T. B., **M**, I, 68, 264; **R**, V, 59; V. B., **R**, X, 63 (Pl. ii).
- Atghoki pass, *Miranzai* (38 K/14;  $33^{\circ} 39' : 70^{\circ} 58'$ ), carbonaceous shales. C. L. G., **R**, XXV, 87; R. R. S., **M**, XLI, 12.
- Athal, *Rawalpindi* (43 G/2;  $33^{\circ} 43' 30'' : 73^{\circ} 14'$ ), oil seepage. D. N. W., **M**, LI, 349.
- Atmacoor, *Kurnool* (57 I/9;  $15^{\circ} 53' : 78^{\circ} 35'$ ), hot spring. T. O., **M**, XIX, 146.
- Atmalik, *Eastern States* (73 D/10;  $20^{\circ} 44' 30'' : 84^{\circ} 30'$ ), hot spring. T. O., **M**, XIX, 143.
- Atong-wo (? Hakkawn), *Mergui* (96 I/15;  $11^{\circ} 23' : 98^{\circ} 58'$ ), coal seam. R. R. S., **M**, XLI, 64.
- Atrai, *Rajshahi* (78 D/14;  $24^{\circ} 37' : 88^{\circ} 59'$ ), earthquake, 1897, fissures. H. H. H., **M**, XXIX, 280.



- Attia, *Mymensingh* (78 H/16; 24° 11' : 89° 55'), Bengal earthquake, 1885, epicentre. F. M. B., **M**, XXXV, 168.
- Attikatti, *Dharwar* (48 M/11; 15° 16' 30" : 75° 39'), basic dykes. J. M. M., **R**, XXXIV, 114 = Hattikatti and Huttee-Kuttee.
- Attrabari, *Mymensingh* (78 I/14; 24° 38' : 90° 45'), earthquake, 1897. R. D. O., **M**, XXIX, 20.
- Attrampakkam, *Chingleput* (57 O/16; 13° 14' : 79° 53' 30"), sections of implement-bearing laterite. R. B. F., **M**, X, 44 (figs.).
- Attur, *Salem* (58 I/10; 11° 36' : 78° 36'), iron-smelting. T. H. H., **R**, XXV, 148 = Ahtoor.
- Atuli, *Kishtwar* (52 C/3; 33° 16' : 76° 10'), faulted anticline. R. L., **R**, XI, 53.
- Aturwani, *Seoni* (55 O/9; 21° 52' : 79° 40'), bauxite. C. S. F., **M**, XLIX, 127.
- Ajinas, *Indore* (55 B/14; 22° 33' 30" : 76° 51'), crystalline limestone. W. T. B., **M**, VI, 244.
- Aukbaingdon Chaung, *L. Chindwin* (84 J/10; 22° 38' : 94° 42'), oil seepage. E. H. P., **M**, XL, 145.
- Aukiveed (Akavidu), *Kurnool* (57 I/14; 15° 33' 30" : 78° 56' 30"), slates, Kistna series. W. K., **M**, VIII, 249.
- Aukmanein, *Thayetmyo* (85 I/16; 19° 14' : 94° 56' 30"), petroleum. M. S., **R**, XXXVIII, 271; E. H. P., **M**, XL, 172.
- Aukyrdwin, *Shwelo* (84 J/13; 22° 52' : 94° 50'), vertebrate fossils. E. H. P., **R**, LXIII, 23, 104.
- Aulakthang, *Sikkim* (78 A/2; 27° 32' 30" : 88° 11'), glacier. P. N. B., **R**, XXIV, 55 = Alukthang.
- Aulthromputty (Alattudaiyanpatti), *Trichinopoly* (58 I/8; 11° 12' 30" : 78° 28') schorl-rock. W. K., **M**, IV, 338.
- Aunglabyin, *Ramri I.* (85 F/9; 18° 59' : 93° 45'), oil seepage. E. H. P., **M**, XI, 193.
- Aunglok, *Mandalay* (93 B/8; 22° 14' 30" : 96° 19'), *Orthonota* beds, Silurian. T. D. L., **M**, XXXIX, pt. 2, 130.
- Aurangpur, *Gurgaon* (53 H/7; 28° 28' : 77° 16'), rock-crystal. C. A. H., **R**, XIII, 250.
- Aurunga R., *Palamau* (73 A/N. W.; 23° 56' : 84° 11'), coalfield. V. B., **M**, XV, 55 (Pl. ii); R. R. S., **M**, XLI, 58; re-survey, E. H. P., **R**, LXII, 148.
- Autapuram, *Nalgonda* (56 O/10; 17° 36' : 79° 34'), pistacite-gneiss. R. B. F., **R**, XVIII, 29.
- Ava, *Sagaing* (84 O/13; 21° 51' : 95° 59'), manganese-ore. L. L. F., **M**, XXXVII, 671.
- Avagudem, *Vicagapatam* (65 N/11; 18° 21' : 83° 32'), manganmagnetite. L. L. F., **M**, XXXVII, 40; psilomelane, 100-106; spandite, 180; manganese-ore, 508, 1098.
- Avagul, *Kalat* (34 K/14; 29° 40' : 66° 54'), carbonaceous shale. G. H. T., **R**, XXXVII, 215.
- Avalanche, *Nilgiri* (58 A/11; 11° 18' : 76° 35'), landslip. H. F. B., **M**, I, 222.
- Aveda, *N. Kanara* (48 I/11; 15° 17' 30" : 74° 32'), manganese-ore. L. L. F., **M**, XXXVII, 649.

- Avinamadugu, *Bellary* (57 A/12; 15° 5' : 76° 44'), Dharwar series, section. R. B. F., **R**, XXII, 27; vertebrate fossils. **M**, XXV, 185.
- Awan, *Jaipur* (45 O/9; 25° 48' : 75° 36' 30"), Aravalli schists and quartzites. A. M. H., **R**, LIV, 356.
- Awantipur, *Kashmir* (43 O/1; 33° 55' : 75° 1'), Kuling beds. R. L., **M**, XXII, 135.
- Awi, *Chitral* (42 D/7; 36° 16' : 72° 20'), conglomerate. H. H. H., **R**, XLV, 289; andesite (dacite), 302 (Pl. xxxi, fig. 2).
- Awkali, *Satara* (47 G/9; 17° 56' 30" : 73° 42'), manganese-ore. L. L. F., **M**, XXXVII, 662.
- Awzachan, *Meiktila* (84 P/9; 20° 57' : 95° 33'), passage beds, Pegu-Irrawadian series. E. H. P., **R**, LIX, 71.
- Aya, *Tibet* (71 P/3; 28° 28' : 87° 10'), Cretaceous syncline. A. M. H., **R**, LIV, 228; basic dykes, 231.
- Ayadaw, *Myingyan* (84 L/13; 20° 55' : 94° 59'), calcite in Pegu clays. E. H. P., **M**, XL, 22.
- Ayangudi, *Pudukkottai* (58 J/16; 10° 14' : 78° 49'), Cuddalore sandstones. R. B. F., **R**, XII, 150; iron smelting. **M**, XX, 46, 98.
- Ayanur, *Shimoga* (48 N/8; 14° 1' : 75° 27'), manganese-ore. L. L. F., **M**, XXXVII, 1134.
- Ayaparaz-Kotapili, *Godavari* (65 K/7; 17° 15' : 82° 25'), U. Jurassic fossils. W. K., **M**, XVI, 228.
- Ayujuli pass, *Russian Turkestan* (42 K/10; 37° 33' : 74° 44'), Perisphinctes beds. H. H. H., **R**, XLV, 312.
- Azimgarj, *Murshidabad* (78 D/12; 24° 7' : 88° 33'), earthquake, 1897. E. V., **M**, XXIX, 313.
- Baba pass, *Afghanistan* (29 J/6; 34° 41' : 62° 23'), Jurassic plant beds. C. L. G., **R**, XVIII, 63; XIX, 56.
- Babai, *Jaipur* (45 M/13; 27° 53' 30" : 75° 46'), copper- and cobalt-ores. C. A. H., **R**, XIII, 246, 248; F. R. M., **R**, XIV, 193; H. H. H., **R**, XLIV, 19; A. M. H., **R**, LIV, 387.
- Babaricha (Bhawrechha), *Gwalior* (54 F/8; 26° 8' : 77° 28'), L. Bhandar shales, section. F. R. M., **M**, VII, 90.
- Babarmal, *Mewar* (45 H/11; 24° 25' 30" : 73° 43' 30"), marble. E. H. P., **R**, LXII, 33.
- Babeh pass, *Bashahr* (53 I/2; 31° 43' : 78° 1'), central gneiss. R. D. C., **R**, XXI, 130; carbonaceous bands in Bhabeh series, 150; glacier. C. L. G., **M**, XXIII, 209 (fig.) = Bhabeh pass.
- Babhor, *Hoshiarpur* (53 A/7; 31° 24' : 76° 22'), Siwalik beds, section. W. T., **R**, XIV, 91; *Mastodon*. H. H. H., **R**, XLI, 83 = Bubhor.
- Bab-i-Kach, *Afghanistan* (38 F/15; 34° 22' : 69° 57' 30"), metamorphic rocks. C. L. G., **R**, XXV, 70.
- Babina, *Jhansi* (54 K/8; 25° 14' : 78° 28'), dam-site. E. H. P., **R**, LXII, 93; LXIII, 78.
- Babisole, *Burdwan* (73 M/2; 23° 35' 30" : 87° 10'), coal seam. R. R. S., **M**, XLI, 46 = Babusol.

- Babooa hill, *Cutch* (41 A/14;  $23^{\circ} 42' : 68^{\circ} 46'$ ), mineral paint. A. B. W., **M**, IX, 90; junction of sub-nummulitic beds and trap, 242.
- Babsar, *Idar* (46 A/13;  $23^{\circ} 59' : 72^{\circ} 54'$ ), granite-aplite. C. S. M., **M**, XLIV, 36.
- Babupur, *Panna* (63 D/5;  $24^{\circ} 48' : 80^{\circ} 20'$ ), overlap of Rewah sandstone. F. R. M., **M**, VII, 67; diamond workings, 69; E. V., **R**, XXXIII, 286.
- Babusar, *Chilas* (43 I/4;  $35^{\circ} 12' : 74^{\circ} 3'$ ), Salkhala series. D. N. W., **R**, LXV, 197.
- Babusol, *Burdwan* (73 M/2;  $23^{\circ} 35' 30'' : 87^{\circ} 10'$ ), Raniganj beds, section. W. T. B., **M**, III, 88 = Babisole.
- Bachai, *Narsinghpur* (55 N/5;  $22^{\circ} 52' : 79^{\circ} 18'$ ), Jabalpur series, boundary. H. B. M., **M**, X, 145; chrysotile in limestone. E. H. P., **R**, LXIII, 109.
- Bachani, *Karachi* (35 O/14;  $25^{\circ} 31' 30'' : 67^{\circ} 49'$ ), unconformity between sub-recent conglomerate and Manchhar beds. W. T. B., **M**, XVII, 156 (Pl. vi, fig. 1).
- Bacharuar, *Rewah* (64 F/15;  $23^{\circ} 20' 30'' : 81^{\circ} 46'$ ), coal seams. T. W. H. H., **M**, XXI, 183, 238.
- Bada (Bahada), *Singhbhum* (73 F/8;  $22^{\circ} 11' 30'' : 85^{\circ} 17' 30''$ ), iron-ore. H. H. H., **R**, LI, 13.
- Badala, *Jodhpur* (45 G/4;  $25^{\circ} 3' 30'' : 73^{\circ} 6'$ ) hypersthene-olivine-dolerite, twinning of feldspars. A. L. C., **R**, LXV, 163.
- Badalgarh, *Bharatpur* (54 F/1;  $26^{\circ} 53' : 77^{\circ} 14'$ ), quartzites and shales, Alwar series. C. A. H., **R**, X, 87.
- Badami, *Bijapur* (48 M/9;  $15^{\circ} 55' : 75^{\circ} 41'$ ), L. Kaladgi quartzites, plateau. R. B. F., **M**, XII, 106 (Pl. vi).
- Badampahar, *Mayurbhanj* (73 J/4;  $22^{\circ} 5' : 86^{\circ} 7'$ ), iron-ore. P. N. B., **R**, XXXI, 169; T. H. H., **R**, XXXIX, 112; L. L. F., **R**, LIII, 278; H. C. J., **R**, LVII, 147.
- Badamu, *Persia* (24 B/15;  $30^{\circ} 21' : 56^{\circ} 48'$ ), U. Liassic fossils. G. H. T., **R**, LIII, 69; coal seams, 72; galena, 74; Jurassic-Cretaceous, section. G. E. P., **M**, XLVIII, pt. 2, 54 (fig.).
- Badani, *Ranchi* (73 F/0;  $22^{\circ} 53' : 85^{\circ} 35'$ ), phyllites, Iron Ore series. J. A. D., **M**, LIV, 49.
- Badanpur, *Maihar* (63 D/16;  $24^{\circ} 10' : 80^{\circ} 49'$ ), L. Vindhyan limestone and shales. F. R. M., **M**, VII, 43; Kaimur conglomerate, 55; Panna shales, section, 63.
- Badapatti Banda, *Sandur* (57 A/12;  $15^{\circ} 0' 30'' : 76^{\circ} 38'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1029.
- Badar, *Punch* (43 K/5;  $33^{\circ} 49' 30'' : 74^{\circ} 16'$ ), Dogra slates. D. N. W., **M**, LI, 306.
- Badargani, *Rangpur* (78 G/2;  $25^{\circ} 40' : 89^{\circ} 3' 30''$ ), earthquake, 1897. R. D. O., **M**, XXIX, 319.
- Badarkha, *Rhopal* (55 E/7;  $23^{\circ} 30' : 77^{\circ} 17'$ ), laterite. C. S. F., **M**, XLIX, 108.
- Badarpur, *Cachar* (83 D/0;  $24^{\circ} 52' : 92^{\circ} 33'$ ), earthquake, 1897. G. E. G., **M**, XXIX, 295; oil seepages. E. H. P., **M**, XL, 310; Srimangal earthquake 1918, foreshock. M. S., **M**, XLVI, 53.
- Badavadi (Budipadaga), *Mysore* (58 E/1;  $11^{\circ} 50' : 77^{\circ} 6'$ ), corundiferous xenoliths in charnockite. T. H. H., **M**, XXVIII, 235; L. L. F., **R**, LXV, 111.

- Baddi, *Simla* (53 B/13;  $30^{\circ} 56' : 76^{\circ} 47' 30''$ ), U. Siwalik fossils. C. S. M., R, XLV, 107.
- Badea, *Singhbhum* (73 J/7;  $22^{\circ} 29' 30'' : 86^{\circ} 28'$ ), apatite. L. L. F., R, LIII, 296 = Badia.
- Badgala, *Sirmur* (53 F/5;  $30^{\circ} 50' : 77^{\circ} 15' 30''$ ), Blaini series, section. G. E. P., M, LIII, 20; overthrust, 28 (fig.).
- Badgaon, *Alwar* (54 A/2;  $27^{\circ} 32' 30'' : 76^{\circ} 13'$ ), amphibolite. A. M. H., M, XLV, 55; tremolite, 59; marble, 60, 126.
- Badgund, *N. Kanara* (48 I/11;  $15^{\circ} 16' 30'' : 74^{\circ} 33'$ ), manganese-ore. L. L. F., M, XXXVII, 649.
- Badhano (Barahana), *Gwalior* (54 G/13;  $25^{\circ} 52' : 77^{\circ} 55' 30''$ ), junction of Par and Morar series. C. A. H., R, III, 35.
- Badhi, *Chhindwara* (55 J/12;  $22^{\circ} 12' : 78^{\circ} 34'$ ), colliery, analysis of coal. G. V. H., R, LIX, 181.
- Radhog, *Simla* (53 E/4;  $31^{\circ} 2' : 77^{\circ} 9'$ ), carbonaceous limestone. G. E. P., M, LIII, 107.
- Badia, *Singhbhum* (73 J/7;  $22^{\circ} 29' 30'' : 86^{\circ} 28'$ ), kyanite. J. A. D., M, LII, 237 = Badea.
- Badinzai, *Zhob* (39 E/8;  $31^{\circ} 9' : 69^{\circ} 17'$ ), dam-site. E. H. P., R, LXIII, 70.
- Badmahi R., *Hazaribagh* (73 E/5;  $23^{\circ} 49' : 85^{\circ} 15'$ ), Barakar stage, section. T. W. H. H., M, VII, 303.
- Badoli, *Idar* (46 E/1;  $23^{\circ} 49' 30'' : 73^{\circ} 4'$ ), sand dunes. C. S. M., M, XLIV, 143.
- Badosa, *Chhindwara* (55 K/14;  $21^{\circ} 42' : 78^{\circ} 55'$ ), dolomitic marble, silicification, E. H. P., R, LIII, 23.
- Badoula, *Kulu* (53 E/1;  $31^{\circ} 49' : 77^{\circ} 11'$ ), Krol limestone. H. B. M., M, III, pt. 2, 59.
- Badragehat, *Pabna* (78 H/11;  $24^{\circ} 26' 30'' : 89^{\circ} 37' 30''$ ), earthquake, 1897, fissures. R. D. O., M, XXIX, 323.
- Badrawar, *Kashmir* (43 P/9;  $32^{\circ} 58' : 75^{\circ} 43'$ ), slates. R. D. O., R, XXI, 159.
- Badrinath, *Garhwal* (53 N/5;  $30^{\circ} 45' : 79^{\circ} 29'$ ), hot spring. T. O., M, XIX, 123.
- Badro (Bhadra), *Cutch* (41 A/15;  $23^{\circ} 26' 30'' : 68^{\circ} 56'$ ), Gaj series, mollusca. E. V., M, L, 365.
- Badul (Barul), *Burdwan* (73 M/2;  $23^{\circ} 44' : 87^{\circ} 7'$ ), Ironstone shales, section. W. T. R., M, III, 76.
- Badum, *Hazaribagh* (73 R/5;  $23^{\circ} 50' : 85^{\circ} 17'$ ), coal seams. A. J., M, LII, 83.
- Badun, *Simla* (53 F/1;  $30^{\circ} 59' 30'' : 77^{\circ} 7' 30''$ ), Chail limestone. G. E. P., M, LIII, 91.
- Badurgal, *Chitral* (38 M/15;  $35^{\circ} 29' : 71^{\circ} 45'$ ), volcanic agglomerate and slate. H. H. H., R, XLV, 278.
- Baerdha, *Jaipur* (54 B/12;  $26^{\circ} 4' : 76^{\circ} 33'$ ), rift valley. A. M. H., M, XLV, 176.
- Baffa, *Hazara* (43 F/3;  $34^{\circ} 26' 30'' : 73^{\circ} 13'$ ), water-supply. E. H. P., R, LXIII, 75.
- Bafiaz, *Punch* (43 K/6;  $33^{\circ} 37' : 74^{\circ} 21'$ ), rhyolitic felsite. D. N. W., M, LI, 224, 310=Rifliage.
- Bag, *Amjhera* (46 J/15;  $22^{\circ} 21' 30'' : 74^{\circ} 47'$ ), Bijawar beds. P. N. B., M, XXI, 14; Cretaceous beds, 25=Bagh.
- Bagai, *Chamba* (52 D/2;  $32^{\circ} 45' : 76^{\circ} 14'$ ), Blaini conglomerate. C. A. M., R, XVIII, 86.

- Bagain, *Simla* (53 E/8 ; 31° 6' 30" : 77° 25'), Blaini conglomerate. C. A. M., **R**, X, 211.
- Bagali Bazar, *Khasi Hills* (78 O/4 ; 25° 12' : 91° 3' 30"), Dagshai or Kasauli beds(?). E. H. P., **R**, LVI, 36.
- Bagalkot, *Bijapur* (47 P/12 ; 16° 11' : 75° 42'), L. Kaladgi limestone. R. B. F., **M**, XII, 118 ; manganese-ore. L. L. F., **M**, XXXVII, 640.
- Bagar, *Sirmur* (53 F/5 ; 30° 45' : 77° 17'), shelly limestone, ? Krol series. L. L. F., **R**, LXV, 132.
- Bagchua, *Jeypore* (65 I/8 ; 19° 2' 30" : 82° 25'), limonite. T. L. W., **A. R.**, 1900, 175.
- Bagderi, *Jeypore* (65 J/5 ; 18° 59' 30" : 82° 21' 30"), granitoid gneiss. T. L. W., **A. R.**, 1900, 168.
- Bagdia R., *Sambalpur* (64 Q/10 ; 21° 42' : 83° 45'), coal seams. V. B., **R**, VIII, 107.
- Bagdona, *Betul* (55 J/4 ; 22° 7' : 78° 6'), Talchir beds. E. H. P., **R**, LIX, 90.
- Bagcha R., *Rewah* (64 E/12 ; 23° 12' : 81° 34'), coal seam. R. R. S., **M**, XLI, 78.
- Bagel Gudda, *Kohlapur* (47 L/15 ; 16° 25' : 74° 48'), trap flows. R. B. F., **M**, XII, 178 ; kaolin. C. S. F., **M**, XLIX, 72.
- Bagepalli, *Kolar* (57 G/13 ; 13° 47' : 77° 48'), mica. T. H. H., **M**, XXXIV, 68.
- Bageswar, *Almora* (53 O/13 ; 29° 50' : 79° 46'), soapstone. T. W. H. H., **R**, XI, 183.
- Baggeri, *Alwar* (54 A/9 ; 27° 54' : 76° 40' 30"), arkose beds. C. A. H., **R**, X, 86 = Bajgiri.
- Bagh, *Amjhera* (46 J/15 ; 22° 21' 30" : 74° 47'), metamorphic rocks. W. T. B., **M**, VI, 192 ; Bijawar and Cretaceous beds, 200, 208, 301, 303 ; **R**, V, 89 = Bag.
- Bagh, *Hazara* (43 F/8 ; 34° 6' : 73° 18'), Trias, section. C. S. M., **M**, XXVI, 162.
- Bagh, *Kalat* (34 O/16 ; 29° 2' 30" : 67° 49'), Baluchistan earthquake, 1909. A. M. H., **R**, XLI, 27 ; fissures, 29 (Pl. iv).
- Bagh, *Punch* (43 G/13 ; 33° 58' : 73° 46'), U. Murree beds. D. N. W., **M**, LI, 270, 317.
- Bagh, *Tirah* (38 K/13 ; 33° 49' : 70° 48'), Trias-Cretaceous, section. H. H. H., **M**, XXVIII, 104, (Pl. v, fig. 3).
- Baghai, *Ranchi* (73 F/9 ; 22° 58' 30" : 85° 38'), tuffs, Iron Ore series. J. A. D., **M**, LIV, 67, 73.
- Baghaia, *Rewah* (63 L/11 ; 24° 24' : 82° 42'), Bijawar sandstone. E. V., **M**, XXXI, 61.
- Bagham, *Rawalpindi* (43 G/11 ; 33° 17' : 73° 36'), U. Siwalik conglomerate. D. N. W., **M**, LI, 285, 360.
- Baghawa, *Rewah* (63 H/15 ; 24° 29' : 81° 47'), Kaimur-Rohtas junction. P. N. D., **M**, XXXI, 159.
- Baghi, *Simla* (53 E/12 ; 31° 14' 30" : 77° 33'), mica-schist. H. B. M., **M**, III, pt. 2, 39 = Bagi.
- Baghia, *Ranchi* (73 F/2 ; 22° 41' : 85° 6' 30"), tuffs, Iron Ore series. J. A. D., **M**, LIV, 73.
- Bagh-i-Haibak, *Afghanistan* (33 M/16 ; 35° 14' 30" : 67° 56'), Doab series, volcanic beds. H. H. H., **M**, XXXIX, 61.
- Baghin, *Persia* (24 B/16 ; 30° 12' : 56° 48'), Jurassic-Cretaceous, section. G. E. P., **M**, XLVIII, pt. 2, 54 (fig.).

- Bagh-i-Sisi, *Persia* (25 E/4 ; 27° 10' : 57° 8' 30"), Fars series. G. E. P., **M**, XLVIII, pt. 2, 103.
- Baghmara, *Mambhum* (73 I/14 ; 23° 39' : 86° 45' 30"), limestone. F. R. M., **R**, X, 149. L. L. F., **R**, LIII, 254.
- Bagh-nadi, *Nandgaon* (64 C/8 ; 21° 4' : 80° 27'), pseudomorphic quartz-rock. V. B., **R**, X, 180.
- Baghneo (Wagh) R., *Amjhera* (46 J/15 ; 22° 18' : 74° 49'), metamorphic rocks. W. T. B., **M**, VI, 312.
- Bagh-o-Malek, *Persia* (10 E/14 ; 31° 32' : 49° 52'), folds in gypsum beds. G. E. P., **M**, XXXIV, pt. 4, 80.
- Baghwana, *Kalat* (35 I/9 ; 27° 58' 30" : 66° 34'), Jurassic anticline. E. V., **R**, XXXVIII, 193.
- Baghwar, *Rewah* (63 H/7 ; 24° 20' : 81° 23'), manganiferous hematite. L. L. F., **M**, XXXVII, 690.
- Bagi, *Simla* (53 E/12 ; 31° 14' 30" : 77° 33'), gneissos granite. C. A. M., **R**, X, 217 ; petrology. XVII, 59, 60=Baghi.
- Bagirhat, *Khulna* (70 F/14 ; 22° 40' : 89° 47'), clay, analysis. E. H. P., **R**, LII, 280.
- Bagjunt, *Hazaribagh* (72 H/14 ; 24° 35' : 85° 50'), moonstone. T. H. H., **M**, XXXIV, 52.
- Bagla, *Betul* (55 F/12 ; 22° 5' 30" : 77° 43'), biotitic granite and gneiss. H. H. H., **R**, XLVII, 37.
- Bagmara, *Garo Hills* (78 K/12 ; 25° 11' : 90° 39'), Miocene fossils. E. S. P., **R**, L, 127 ; E. V., **R**, LI, 303, 340 ; LIII, 84 ; **M**, L, 146 ; E. H. P., **R**, LXII, 24.
- Bagmara, *Santal Parganas* (72 P/6 ; 24° 38' : 87° 17'), kaolin. M. S., **R**, XXXVIII, 134.
- Bagmari, *Bhagalpur* (72 L/13 ; 24° 47' : 86° 45' 30"), graphite. L. L. F., **R**, LIII, 271.
- Bagnetur, *Hazara* (43 F/8 ; 34° 7' 30" : 73° 20'), Attock slates. A. B. W., **R**, XII, 209=Bugnotur.
- Ragonia, *Burdwan* (73 I/14 ; 23° 44' : 86° 49'), local unconformity of Ironstone shales on Barakars. W. T. B., **M**, III, 42 (fig.) ; Ironstone shales, section, 75=Begunia.
- Bagra, *Hoshangabad* (55 J/2 ; 22° 36' : 78° 2'), Bagra stage. H. B. M., **M**, X, 150.
- Bagrami, *Afghanistan* (38 F/7 ; 34° 29' : 69° 16'), Tertiary beds. H. H. H., **M**, XXXIX, 45.
- Bagrar, *Chamba* (43 P/14 ; 32° 33' : 75° 55' 30"), altered basalt, petrology. C. A. M., **R**, XVI, 178.
- Bagri, *Jaipur* (54 B/7 ; 26° 27' : 70° 23'), Aravalli quartzites. A. M. H., **R**, LIV, 354.
- Bagula, *Nadia* (79 A/11 ; 23° 20' : 88° 39'), earthquake, 1897. H. H. H., **M**, XXIX, 279.
- Bahadur Khel, *Kohat* (38 K/16 ; 33° 11' : 70° 58'), rock-salt. A. B. W., **M**, XI, 132, 244 (Frontispiece & Pl. vii) ; H. W., **M**, XI, 312 ; M. S., **R**, L, 30, 68 (figs. & Pls. i, ii & viii) ; C. S. F., **R**, LXI, 163, 179 (Pl. xvi) ; gypsaceous series. L. L. F., **R**, LXV, 112.

- Bahadurdinni, *Raichur* (56 D/16; 16° 7' : 76° 53'), quartz reef. R. B. F., **M**, XII, 67.
- Bahak, *Tehri* (53 J/1; 30° 45' : 78° 14'), geodetic station. R. D. O., **M**, XLII, 249=Bouk.
- Bahardarpur, *Alwar* (54 A/16; 27° 9' 30" : 76° 47'), granite. A. M. H., **M**, XLV, 20; Alwar conglomerate, 46.
- Baheria, *Rewah* (63 H/4; 24° 1' : 81° 3'), L. Vindhyan trappoid rock. E. V., **M**, XXXI, 93.
- Bahgar, *Rewah* (64 E/11; 23° 21' : 81° 41'), coal seams. T. W. H. H., **M**, XXI, 183, 237.
- Bahi, *Korea* (64 I/3; 23° 21' : 82° 12'), coal seams. T. W. H. H., **M**, XXI, 199 236; L. L. F., **M**, XLI, 193, 220.
- Bahingra Mt., *Hazara* (43 B/15; 34° 21' : 72° 58'), igneous rocks. A. B. W., **R**, XII, 119.
- Bahitta, *Jhelum* (43 H/5; 32° 48' : 73° 18'), *Paramachærodus*. G. E. P., **R**, XLV, 139.
- Bahrain Is., *Persian Gulf* (11 J/S.; 26° 0' : 50° 30'), geology. G. E. P., **M**, XXXIV, pt. 4, 112 (fig. & Pl. xii); asphalt, 149; gypsum, 159.
- Bahramabad, *Persia* (24 B/3; 30° 24' : 56° 1'), Cretaceous, volcanic series. G. E. P., **M**, XLVIII, pt. 2, 67, 70; copper-ore. G. H. T., **R**, LIII, 73.
- Bahtar, *Attork* (43 C/2; 33° 44' : 72° 2'), 'erratic'. A. B. W., **R**, X, 124.
- Bahtu, *Alwar* (54 A/15; 27° 19' : 76° 57'), pegmatite. A. M. H., **M**, XLV, 99.
- Baiani, *Afghanistan* (33 M/16; 35° 12' : 67° 47'), Doab series—gneiss boundary. H. H. H., **M**, XXXIX, 61.
- Baichubal, *Gulbarga* (56 D/10; 16° 33' : 76° 34'), brine springs. R. B. F., **M**, XII, 253.
- Baida Chauk, *Bhagalpur* (72 P/1; 24° 46' : 87° 2'), chromite. A. L. C., **R**, LXII, 185.
- Baidyanathpur, *Burdwan* (73 M/6; 23° 43' : 87° 16' 30"), faulted coal seam. E. H. P., **R**, LXII, 143.
- Baihar, *Balaghat* (64 B/12; 22° 6' : 80° 33'), bauxite. C. S. F., **M**, XLIX, 133.
- Baijnath, *Kangra* (52 D/12; 32° 3' : 76° 38'), earthquake, 1905. C. S. M., **M**, XXXVIII, 45, 316 (Pl. xi, fig. 1).—Beijnath.
- Bail Hongal, *Belgaum* (48 I/13; 15° 49' : 74° 51' 30"), schistose band, gneissic series. R. B. F., **M**, XII, 43; hematite-schist, 53; crystalline limestone, 57=Byl Hongul.
- Baila, *Punch* (43 K/1; 33° 46' 30" : 74° 14' 30"), Eocene beds. D. N. W., **M**, LI, 303.
- Bailamu, *Chamba* (52 D/2; 32° 41' 30" : 76° 7'), volcanic ash, petrology. C. A. M., **R**, XVIII, 98.
- Bailur, *Belgaum* (48 I/6; 15° 44' 30" : 74° 21'), aluminous laterite. R. B. F., **M**, XII, 207; C. S. F., **M**, XLIX, 65.
- Bailur (Payalur), *Coimbatore* (58 E/1; 11° 49' : 77° 15'), green quartzite. H. H. H., **M**, XXXIII, pt. 2, 59; steatite, 60.
- Bain, *Indore* (55 B/11; 22° 25' : 76° 42'), iron-ore. P. N. B., **M**, XXI, 65.
- Bain, *Punch* (43 K/1; 33° 58' : 74° 7' 30"), Laki shales, synclinal. D. N. W., **M**, LI, 297.

- Bainskum, *Almora* (62 C/1 ; 29° 55' 30" : 80° 9'), lead mine. A. W. L., **R**, II, 88.
- Bairapur, *Gulbarga* (56 D/11 ; 16° 26' : 76° 34' 30"), vesicular trap. R. B. F., **M**, XII, 186.
- Bairas (Bairawas), *Alwar* (54 A/7 ; 27° 28' : 76° 24'), Kushalgarh limestone. A. M. H., **M**, XLV, 59.
- Bairasia, *Bhopal* (55 E/6 ; 23° 38' : 77° 26'), aluminous laterite. T. H. H., **R**, XXXIII, 109.
- Bairat, *Jaipur* (54 A/3 ; 27° 26' : 76° 11'), trap. A. M. H., **M**, XLV, 53 ; granite, 93 ; granite veins in epidiorite. **R**, LIV, 378.
- Bairawudi Konda, *Nellore* (57 M/4 ; 15° 5' : 79° 12'), mica-schists. R. B. F., **M**, XVI, 12 ; outlier, Cuddapah quartzites, 46.
- Bairuki, *Santal Parganas* (72 L/10 ; 24° 36' : 86° 36'), copper, lead and zinc-ores. L. L. F., **R**, LIII, 264, 283, 305.
- Bairung, *Khasi Hills* (78 O/12 ; 25° 12' : 91° 43'), coal seam. T. O., **M**, I, 143.
- Baisandar R., *Gangpur* (64 N/16 ; 22° 2' : 83° 48'), Barakar stage, section. V. B., **R**, IV, 103 ; borings for coal. W. K., **R**, XIX, 216, 233 ; XX, 200 ; R. R. S., **M**, XLI, 86.
- Baislana, *Jaipur* (54 A/2 ; 27° 39' : 76° 5' 30"), black marble. A. M. H., **R**, LIV, 391=Bhainslana.
- Baital Falaj, *Oman* (26 I/10 ; 23° 37' : 58° 31'), Cretaceous beds (?). G. E. P., **M**, XXXIV, pt. 4, 89.
- Baitool (Betul), *Central Provs.* (55 G/13 ; 21° 51' : 77° 56'), metamorphic rocks. W. T. B., **M**, VI, 190 ; Infra-trappean beds, 271.
- Bajamara, *Dehra Dun* (53 F/13 ; 30° 46' : 77° 53'), geodetic station. R. D. O., **M**, XLII, 249.
- Bajaora (Bajaura), *Kulu* (53 E/1 ; 31° 51' : 77° 9'), Krol series. H. B. M., **M**, III, pt. 2, 58. Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 54, 316.
- Bajaria, *Charkari* (63 D/5 ; 24° 45' : 80° 15' 30"), diamond workings. E. V., **R**, XXXIII, 286.
- Bajbai, *Rewah* (63 H/16 ; 24° 5' : 81° 53' 30"), Raniganj plants. O. F., **R**, XIII, 184 ; T. W. H. H., **R**, XIV, 130 ; *Vertebraria*. R. D. O., **R**, XXX, 49 (Pl. iv, fig. 1).
- Bajgah, *Afghanistan* (33 M/15 ; 35° 20' 30" : 67° 48'), recumbent folding. H. H. H., **M**, XXXIX, 3, 66 (fig.) ; Cretaceous limestone, 68 (fig. & Pl. xvii) ; fossils H. S. B., **R**, LVI, 266.
- Bajgah, *Persia* (17 C/10 ; 29° 44' : 52° 35'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 75.
- Bajgiri (Bagheri), *Alwar* (54 A/9 ; 27° 54' : 76° 40' 30"), granite. A. M. H., **M**, XLV, 39, 97=Baggeri.
- Bajna, *Karauli* (54 B/15 ; 26° 17' : 76° 47'), lateritic rock in Jhiri shales. A. M. H., **M**, XLV, 164 (Pl. xxxvi, fig. 3).
- Bajni, *Sirmur* (53 F/5 ; 30° 51' 30" : 77° 24'), olivine-dolerite. G. E. P., **M**, LIII, 56.
- Bajno, *Bijawar* (54 P/7 ; 24° 25' 30" : 79° 21' 30"), Semri limestone and shales. E. V., **R**, XXXIII, 269.
- Bakahi, *Rewah* (64 E/12 ; 23° 13' : 81° 37'), coal seam. T. W. H. H., **M**, XXI, 237 = Bokahi.



- Bakaili, *Rewah* (63 H/4 ; 24° 9' : 81° 13' 30"), L. Vindhyan limestone. P. N. D. **M**, XXXI, 142.
- Bakoham, *Tibet* (78 A/15 ; 27° 29' 30" : 88° 55'), river confluence. H. H. H., **M**, XXXVI, 130.
- Bakesu, *Patiala* (53 E/4 ; 31° 2' 30" : 77° 3'), Chail limestone. G. E. P., **M**, LIII, 92.
- Bakh ravine, *Mianwali* (38 P/14 ; 32° 40' : 71° 48'), gorge. A. B. W., **M**, XIV, 45 (Pl. iii); hot springs, sulphurous, 48; Carboniferous-Tertiary, section, 253 (Pl. xxviii, fig. 48); hot spring. T. O., **M**, XIX, 115.
- Bakhal, *Jodhpur* (45 C/14 ; 25° 43' : 72° 52' 30"), concretionary rhyolite. T. D. J., **M**, XXXV, 70 (Pl. v, fig. 2).
- Bakharla, *Kathiawar* (41 G/10 ; 21° 44' : 69° 38'), laterite. F. F., **M**, XXI, 106, 133.
- Baklo, *Bundi* (54 C/2 ; 25° 40' 30" : 76° 15'), U. Bhandar sandstone. A. L. C., **R**, LX, 181.
- Bakloh, *Chamba* (43 P/15 ; 32° 28' : 75° 55'), U. Siwalik beds. W. T., **R**, XIV, 92; Tertiary sandstones, petrology. C. A. M., **R**, XVI, 187; building sites. E. H. P., **R**, LIX, 37.
- Bakoda, *Balaghat* (64 C/1 ; 21° 55' : 80° 3' 30"), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Bakra, *Singhbhum* (73 J/7 ; 22° 29' : 86° 29'), kyanite. J. A. D., **M**, LII, 238.
- Bakralla pass, *Jhelum* (43 G/8 ; 33° 6' : 73° 27'), Tertiary beds, sections. A. B. W. **M**, XIV, 119 (Pl. x); brine spring. E. H. P., **M**, XL, 438.
- Bakrol, *Idar* (46 E/6 ; 23° 32' 30" : 73° 17'), sand dunes. C. S. M., **M**, XLIV, 143.
- Bakur, *Betul* (55 J/4 ; 22° 4' : 78° 8'), limestone. E. J. J., **M**, XXIV, 57.
- Bala Murghab, *Afghanistan* (29 M/6 ; 35° 35' : 63° 19'), Pliocene beds. C. L. G., **R**, XIX, 259.
- Balaghat, *Central Provs.* (64 C/1 ; 21° 49' : 80° 12'), hollandite. L. L. F., **M**, XXXVII, 88, 90-96; psilomelane, 98, 112-114; ottrelite, 200; gondite, 311, 317; black and red quartzite, 343, 344, 716 (fig. & Pl. xiii, fig. 1); manganese-ore. 714 (figs. & Pls. xx, xxi).
- Balair, *Spiti* (53 E/13 ; 31° 50' : 77° 59'), dolomitic limestone. F. S., **M**, V, 18 = Baldar and Buldur.
- Balakot, *Hazara* (43 F/6 ; 34° 33' : 73° 21'), gneissose granite. R. L., **M**, XXII, 303; Salkhala series. D. N. W., **R**, LXV, 197.
- Balanpur, *Adilabad* (56 M/3 ; 19° 20' : 79° 6'), Kota-Maleri plants. T. W. H. H., **R**, XI, 28; W. K., **M**, XVIII, 279.
- Balarpur, *Chanda* (56 M/5 ; 19° 51' : 79° 20' 30"), coal seam. W. T. B., **R**, I, 24 = Ballarpur.
- Balasore, *Orissa* (73 K/15 ; 21° 30' : 86° 56'), laterite. W. T. B., **M**, I, 273; earthquake, 1897. R. D. O., **M**, XXIX, 34; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 257; Pleistocene fossils. E. H. P., **R**, LXII, 22.
- Balbahara, *Korea* (64 I/7 ; 23° 18' : 82° 16'), coal seam. T. W. H. H., **M**, XXI, 199; L. L. F., **M**, XLI, 180, 192, 218, 219; R. R. S., **M**, XLI, 78.
- Balcarres estate, *Wynad* (58 A/7 ; 11° 28' : 76° 21'), gold. H. H. H., **M**, XXXIII, pt. 2, 21.

- Balchdhura pass, *Hundes* (62 B/1 ; 30° 48' : 80° 12'), Cretaceous beds. C. L. G., **M**, XXIII, 149, 155 ; flysch beds and exotic blocks. A. K., **M**, XXXII, 151 (fig. & Pls. i, iii & xii, fig. 1) ; C. D., **M**, XXVIII, 4 ; XXXVI, 333, 337.
- Baldar, *Spiti* (53 E/13 ; 31° 50' : 77° 59'), Ordovician conglomerate. H. H. H., **M**, XXXVI, 22, 23 = Balair and Buldur.
- Baldeogarh, *Alwar* (54 A/8 ; 27° 7' 30" : 76° 23'), marble. C. A. H., **R**, X, 85, 92 ; XIII, 250 ; granite. A. M. H., **M**, XLV, 17 ; marble, 27, 126.
- Baldia, *Mayurbhanj* (73 K/9 ; 21° 58' : 86° 37'), potstone. P. N. B., **R**, XXXI, 173.
- Baldia, *Simla* (53 E/4 ; 31° 10' : 77° 12' 30"), Naldera limestone. G. E. P., **M**, LIII, 113.
- Balekoppa, *Shimoga* (48 O/1 ; 13° 58' : 75° 10'), mica. T. H. H., **M**, XXXIV, 68.
- Baleli, *Quetta-Pishin* (34 J/15 ; 30° 17' : 66° 54' 30"), Cretaceous-Siwalik boundary. R. D. O., **R**, XXV, 37, 51.
- Balgi, *Ranchi* (73 F/5 ; 22° 53' 30" : 85° 15'), amphibole-rock. J. A. D., **M**, LIV, 94.
- Balgiran, *Kashmir* (43 F/11 ; 34° 27' : 73° 41' 30"), Salkhala series. D. N. W., **R**, LXV, 198 ; Permo-Carboniferous beds, 211.
- Baliarn, *Rawalpindi* (43 G/11 ; 33° 18' : 73° 30' 30"), Siwalik fossils. D. N. W., **M**, LI, 362.
- Baliana, *Patiala* (53 D/3 ; 28° 16' 30" : 76° 4'), building stone. P. N. B., **R**, XXXIII, 61.
- Baliari (Binhari), *Patiala* (54 A/1 ; 27° 51' : 76° 9'), limestone. P. N. B., **R**, XXXIII, 59.
- Baliari, *Thar Parkar* (40 H/11 ; 24° 20' : 69° 38'), earthquake, 1819. R. D. O., **M**, XLVI, 112.
- Balibah, *Singhbhum* (73 F/4 ; 22° 12' : 85° 11'), Iron-ore series, section. E. H. P., **R**, LVI, 37.
- Balidih, *Santal Parganas* (72 P/7 ; 24° 27' 30" : 87° 23'), Talchir beds, section. V. B., **M**, XIII, 176.
- Baling, *Almora* (62 B/12 ; 30° 12' : 80° 33'), contortions in Haimanta beds. C. L. G., **M**, XXIII, 44 (fig.), 162.
- Balipani, *Saraikele* (73 F/10 ; 22° 44' : 85° 33'), quartz-sericite-schist. J. A. D., **M**, LIV, 116.
- Balipara, *Darrang* (83 B/9 ; 26° 50' : 92° 44'), earthquake, 1897. R. D. O., **M**, XXIX, 97.
- Baliser valley, *Sylhet* (78 P/16 ; 24° 14' : 91° 47'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 7 ; foreshocks, 53.
- Balla, *Bhutan* (78 F/5 ; 26° 53' : 89° 21'), stcatite. F. R. M., **M**, XI, 35.
- Baliarpur, *Balaghat* (64 C/1 ; 21° 54' 30" : 80° 2'), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Baliarpur, *Ohanda* (56 M/5 ; 19° 51' : 79° 20' 30"), borings for coal. T. O., **R**, II, 95 ; III, 48 ; T. W. H. H., **M**, XIII, 37 ; colliery. R. R. S., **M**, XLI, 90 (Pl. xi, fig. 2) ; coal, analysis. G. S. L., **R**, XXXI, 51 = Balarpur.
- Ballia, *United Provs.* (72 C/2 ; 25° 44' : 84° 9'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 249.
- Balliari, *Hazaribagh* (73 I/6 ; 23° 44' : 86° 23'), coal. R. R. S., **M**, XLI, 52.

- Ballung (Bolongdoay), *Manipur* (83 H/5 ; 24° 45' 30" ; 93° 25'), kaolin. R. D. O., **M**, XIX, 218.
- Ballur, *Bijapur* (47 P/11 ; 16° 25' : 75° 34'), sub-recent conglomerate. R. B. F., **M**, XII, 241.
- Ballur, *Shimoga* (48 N/11 ; 14° 15' : 75° 31'), manganese-ore. L. L. F., **M**, XXXVII, 1133.
- Balmi Creek, *Andamans* (86 C/16 ; 13° 3' : 92° 55'), manganese-ore. L. L. F., **M**, XXXVII, 613.
- Balmir, *Jodhpur* (40 O/6 ; 25° 44' 30" : 71° 23'), sandstones. W. T. B., **R**, X, 11 ; basaltic lava, petrology. C. A. M., **R**, XIX, 162 = Barmer.
- Balogti, *Sirmur* (53 F/5 ; 30° 51' : 77° 23'), gneissose granite. G. E. P., **M**, LIII, 54.
- Balori, *Chamba* (52 D/2 ; 32° 41' 30" : 76° 5'), high-level boulder bed. C. A. M., **R**, XVIII, 80.
- Balotra, *Jodhpur* (45 C/1 ; 25° 50' : 72° 14' 30"), sandhills. T. D. L., **M**, XXXV, 13 = Belotra.
- Balpakram, *Garro Hills* (78 K/15 ; 25° 17' : 90° 51'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 112 (Pl. xxvii, fig. 1) ; landslips, 117.
- Balram, *Bamra* (73 C/14 ; 21° 32' : 84° 52'), sillimanite. E. H. P., **R**, LIX, 51 ; LXI, 71.
- Balrampur, *Athgarh* (73 H/11 ; 20° 28' : 85° 44' 30"), Athgarh sandstones. V. B., **R**, X, 65.
- Balsing, *Korea* (64 I/7 ; 23° 22' 30" : 82° 19' 30"), coal seams. T. W. H. H., **M**, XXI, 201, 237.
- Balsunda, *Bundi* (54 C/2 ; 25° 42' : 76° 13'), fault. A. L. C., **R**, LX, 189.
- Baltal, *Kashmir* (43 N/7 ; 34° 15' : 75° 25' 30"), U. Triassic limestone. R. L., **R**, XII, 18 ; C. S. M., **R**, XLI, 142 ; gorge. R. D. O., **R**, XXXI, 149 (Pls. xii, xiii).
- Baltoro glacier, *Ladakh* (52 A/N. W. ; 35° 45' : 76° 15'), movements of snout. K. M., **R**, LXIII, 257 (Pl. vii, 22).
- Balu hill, *Suket* (53 E/7 ; 31° 18' : 77° 18'), Shali limestone. H. B. M., **M**, III, pt. 2, 50.
- Baluk, *Simla* (53 F/9 ; 30° 52' : 77° 36'), Deoban limestone. H. B. M., **M**, III, pt. 2, 43.
- Balula, *Afghanistan* (38 B/1 ; 34° 53' : 68° 5'), Fusulina limestone. H. H. H., **M**, XXXIX, 27, 50, 52 (Pl. ix).
- Balunath, *Palamau* (73 A/13 ; 23° 50' : 84° 47'), Barakar plants. O. F., **R**, XIV, 246.
- Balunagar, *Palamau* (73 A/9 ; 23° 50' : 84° 40'), Talchir beds. V. B., **M**, XV, 55 ; Barakar plants. O. F., **R**, XIV, 252.
- Balutmagudem, *Warangal* (56 O/13 ; 17° 50' : 79° 59' 30"), quartz-schists. W. K., **M**, XVIII, 216.
- Balwari, *Amjhera* (46 J/15 ; 22° 24' 30" : 74° 58'), Vindhyan 'red rock' (?). P. N. B., **M**, XXI, 16 = Bulwarec.
- Balwas (Bulawas) R., *Persia* (10 E/14 ; 31° 32' : 49° 57'), gorge, Bakhtiyari series. G. E. P., **M**, XXXIV, pt. 4, 79.
- Bam, *Persia* (24 K/8 ; 29° 6' : 58° 20'), rhyolitic tuffs, Cretaceous. G. H. T., **R**, LIII, 62 ; G. E. P., **M**, XLVIII, pt. 2, 68.

- Bam, *Sikkim* (78 A/8; 27° 13' 30" : 88° 15'), copper-ore. P. N. B., **R**, XXIV, 227.
- Bam Tso, *Sikkim* (77 D/16; 28° 4' : 88° 47'), glacial lake. H. H. H., **M**, XXXVI, 134.
- Bamanbor, *Kathiawar* (41 N/3; 22° 25' : 71° 1'), porcellaneous shale, Intertrappean. F. F., **M**, XXI, 99.
- Bamankua, *Panch Mahals* (46 F/11; 22° 27' : 73° 37'), manganese-ore. L. L. F., **M**, XXXVII, 459, 655.
- Bamanvada, *Idar* (46 E/6; 23° 36' : 73° 18'), white pyroxene-rock. C. S. M., **M**, XLIV, 67 (fig. & Pl. xi, fig. 5); tremolite-rock, 69 (Pl. xi, fig. 6); bowenite, 71, 149; basic dykes, 133.
- Bambadhura range, *Almora* (62 B/7; 30° 26' : 80° 18'), sections. C. L. G., **M**, XXIII, 165 (Pls. vii, xiv).
- Bambanag, *Almora* (62 B/2; 30° 40' : 80° 7'), Halorites Limestone, fossils. C. D., **R**, XXXIV, 1 (Pls. i, ii); Muschelkalk. **M**, XXXVI, 258; U. Trias, section, 304 (fig.); Muschelkalk, section. A. K., **A. R.**, 1901, 26.
- Bamburda, *Savantvadi* (48 E/9; 15° 57' : 73° 43'), talc-rock. R. B. F., **M**, XII, 54.
- Bambwe, *L. Chindwin* (84 N/4; 22° 13' : 95° 0' 30"), basaltic tuff. E. H. P., **R**, LXI, 109.
- Bambyin, *Thayetmyo* (85 M/3; 19° 25' : 95° 2'), petroleum. F. N., **M**, XXVII, 75; E. H. P., **M**, XL, 171 = Banbyin.
- Bamian, *Afghanistan* (33 N/13; 34° 50' : 67° 50'), Cretaceous-Tertiary sequence. C. L. G., **R**, XIX, 257; Kalu series. H. H. H., **M**, XXXIX, 25; Red Grit series, 34, 53; Siwalik beds, 39.
- Bamna, *Idar* (46 E/2; 23° 41' : 73° 11' 30"), colour-banding in Delhi quartzite. C. S. M., **M**, XLIV, 87 (fig.).
- Bamni, *Balaghat* (64 B/12; 22° 8' : 80° 38'), mica. T. H. H., **M**, XXXIV, 55.
- Bamni, *Chhindwara* (55 J/10; 22° 32' 30" : 78° 43'), acid dolerite. E. H. P., **R**, LXII, 129.
- Bamnia, *Indore* (46 I/16; 23° 6' : 74° 45' 30"), volcanic breccia in Deccan trap. T. H. H., **R**, XXXVII, 46.
- Bamnoli, *Satara* (47 G/14; 17° 44' : 73° 45'), dam-site. C. S. F., **M**, XLIX, 84.
- Bamnor (Bamnaud) hill, *Bhopal* (55 E/15; 23° 24' : 77° 55'), L. Vindhyan shales. T. H. H., **R**, XXXIII, 106.
- Bamori, *Balaghat* (64 C/1; 21° 46' : 80° 11' 30"), biotite-norite, charnockite series. K. H., **R**, LV, 254.
- Bamori, *Chhindwara* (55 J/12; 22° 12' : 78° 44'), colliery, analysis of coal. G. V. H., **R**, LIX, 175.
- Bampa, *Garhwal* (53 N/14; 30° 45' : 79° 49' 30"), gorge. C. L. G., **M**, XXIII, 93 (fig.).
- Bamping, *S. Shan States* (93 H/9; 20° 47' : 97° 35'), limestone. C. S. M., **A. R.**, 1900, 140.
- Bampur, *Persia* (31 A/8; 27° 12' : 60° 28'), Volcanic series, Cretaceous. G. H. T., **R**, LIII, 61; Siwalik beds, 67; nummulitic limestone. G. E. P., **M**, XLVIII, pt. 2, 73.
- Bamra, *Eastern States* (73 B/8; 22° 3' : 84° 18'), Cuddapah beds. J. M. M., **R**, XXXI, 73.

- Ban, *Sirohi* (45 C/16; 25° 5' : 72° 52'), granite. E. H. P., **R**, LX, 113.
- Ban R., *Tavoy* (95 J/12; 14° 6' : 98° 33'), Tertiary beds. J. C. B., **M**, XLIV, 194.
- Banaganpilly (Banganapalle), *Kurnool* (57 I/3; 15° 19' : 78° 14'), diamond mines. W. K., **M**, VIII, 87, 97.
- Banak, *Afghanistan* (33 M/11; 35° 19' : 67° 35'), Tertiary beds. H. H. H., **M**, XXXIX, 59, 67.
- Banali, *Burdwan* (73 M/2; 23° 40' 30" : 87° 5'), coal seam. W. T. B., **M**, III, 103.
- Banali, *Sirmur* (53 F/5; 30° 54' : 77° 22'), staurolite-schist. G. E. P., **M**, LIII, 66.
- Banari, *Patarkechar* (63 D/9; 24° 56' : 80° 36'), diamond workings. E. V., **R**, XXXIII, 286.
- Banas, *Garhwal* (53 K/5; 29° 58' 30" : 78° 20'), Subathu beds. R. D. O., **R**, XVII, 163.
- Banas R., *Rewah* (63 H/8; 24° 8' : 81° 30'), erosion. R. D. O., **M**, XXXI, 43.
- Banas Ry. bridge, *Jaipur* (54 B/12; 26° 12' : 76° 31'), Tirohan limestone. A. M. H., **M**, XLV, 148.
- Banassa, *Tehri* (53 J/5; 30° 56' 30" : 78° 25'), hot springs. T. O., **M**, XIX, 123.
- Banatu (Bunhad), *Chamba* (43 P/14; 32° 39' : 75° 55'), gneiss, petrology. C. A. M., **R**, XVII, 64.
- Banbyin, *Thayetmyo* (85 M/3; 19° 25' : 95° 2'), petroleum. W. T., R. V., 121; **M**, X, 348 (Pl. ii); M. S., **R**, XXXVIII, 273, 290; *Balanus*. T. H. Withers, **R**, LIV, 288 (Pl. xix, figs. 2-6)=Bambyin.
- Band Khel, *Waziristan* (38 H/14; 32° 37' : 69° 49'), Janjal plant beds. M. S., **R**, LIV, 96.
- Band Vero, *Karachi* (40 C/2; 25° 34' : 68° 4'), Gaj series, mollusca. E. V., **M**, L, 426, 428=Bandh Vera.
- Banda, *Rawalpindi* (43 G/3; 33° 20' : 73° 2'), U. Siwalik fossils. D. N. W., **M**, LI, 286, 344.
- Banda, *Savantvadi* (48 E/13; 15° 48' 30" : 73° 52'), iron-ore. H. H. H., **R**, XLIII, 18.
- Banda, *United Provinces* (63 C/7; 25° 29' : 80° 20'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 247; agate industry. E. H. P., **R**, LII, 287.
- Banda hill, *Hazaribagh* (72 H/11; 24° 29' : 85° 35'), dome-gneiss. T. H. H., **M**, XXXIV, 41, 47.
- Banda Daud Shah, *Kohat* (38 O/3; 33° 17' : 71° 10'), oil seepages. E. H. P., **M**, XL, 417.
- Banda Kumba, *Singbhum* (73 F/6; 22° 41' : 85° 23'), laterite-epidiorite boundary. J. A. D., **M**, LIV, 144 (fig.).
- Banda Nagial, *Rawalpindi* (43 G/2; 33° 32' : 73° 0'), Tertiaries, section. D. N. W., **M**, LI, 337.
- Banda Pat, *Ranchi*, bauxite, *see* Samri Pat.
- Bandabir (Banabera), *Betul* (55 F/15; 22° 16' 30" : 77° 50'), indurated sandstone. H. B. M., **R**, VIII, 85.
- Bandapani, *Darjeeling* (78 F/1; 26° 48' : 89° 7'), travertine. F. R. M., **M**, XI, 87.
- Bandar, *Chanda* (55 P/6; 20° 30' : 79° 17'), coalfield. T. W. H. H., **M**, XIII, 145 (Pl. iii); R. R. S., **M**, XLI, 90.
- Bandar Abbas, *Persian Gulf* (25 A/8; 27° 11' : 56° 17'), gypsum beds, Fars series, G. E. P., **M**, XXXIV, pt. 4, 28; XLVIII, pt. 2, 94.

- Bandar Jissa, *Oman* (26 I/10; 23° 34' : 58° 40'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 19, 88.
- Bandara, *Nagpur* (55 O/6; 21° 38' : 79° 23'), manganese-ore. L. L. F., **R**, LXV, 102.
- Bandari, *Bellary* (57 B/5; 14° 59' 30" : 76° 27'), gneissose granite dome. R. B. F., **M**, XXV, 44.
- Bandarjhiri hill, *Chhindwara* (55 K/13; 21° 58' : 78° 52'), vesicular trap. L. L. F., **R**, XLVII, 94, 99.
- Bandarwa, *Bhopal* (55 E/5; 23° 46' 30" : 77° 26'), laterite. C. S. F., **M**, XLIX, 108.
- Banday, *Bellary* (48 N/13; 14° 52' : 75° 57'), augen-gneiss. R. B. F., **M**, XXV, 36.
- Bandega, *Gangpur* (73 B/2; 22° 30' : 84° 2' 30"), mica-schists. L. L. F., **R**, LXV, 73; brecciated quartz, 75.
- Banderba Choki, *Jaipur* (54 B/12; 26° 4' 30" : 76° 34'), fault-breccia. A. M. H., **M**, XLV, 172; indurated Bhandar sandstone, 179.
- Bandesor, *Kalahandi* (65 M/1; 19° 54' : 83° 10'), garnetiferous gneiss. T. L. W., **A. R.**, 1901, 15=Bondesor.
- Bandgaon, *Singhbhum* (73 F/5; 22° 51' 30" : 85° 20'), tuffs. J. A. D., **M**, LIV, 73; hornblende-schist, 92; quartz veins, 143.
- Bandh Vera, *Karachi* (40 C/2; 25° 34' : 68° 4'), lateritic Gaj beds. W. T. B., **M**, XVII, 145; iron-ore, 193=Band Vero.
- Bandhdih, *Ranchi* (73 F/9; 22° 54' 30" : 85° 40' 30"), epidiorite flow. J. A. D., **M**, LIV, 89.
- Bandhi, *Narsinghpur* (55 N/1; 22° 48' : 79° 7'), grünerite-schist. E. H. P., **R**, LXII, 131.
- Bandhri, *Larkhana* (35 N/12; 26° 11' : 67° 43'), Nari series, *Venus*. E. V., **M**, L, 453.
- Bandi, *Panna* (63 D/2; 24° 43' : 80° 4'), diamond workings. E. V., **R**, XXXIII, 286.
- Bandia Gad, *Sirohi* (45 D/15; 24° 25' : 72° 49'), fault. E. H. P., **R**, LXI, 132.
- Bandili, *Punch* (43 K/3; 33° 27' : 74° 7'), Eocene beds, section. D. N. W., **M**, LI, 324.
- Bandipur, *Kashmir* (43 J/11; 34° 25' : 74° 39'), Triassic limestone. R. L., **R**, XIV, 24; **M**, XXII, 141.
- Bandla (Banaun), *Patiala* (53 E/4; 31° 8' : 77° 2'), Chail overthrust, section. G. E. P., **M**, LIII, 97.
- Bandogarh, *Rewah* (64 E/2; 23° 40' 30" : 81° 2'), Mahadeva sandstone. T. O., **R**, IV, 75.
- Bando-ji-kabar, *Larkhana* (35 M/4; 27° 9' 30" : 67° 11'), Khirthar-Nari beds, section. W. T. B., **M**, XVII, 87 (Pl. iii, fig. 1).
- Bandora, *Gulbarga* (56 D/11; 16° 22' 30" : 76° 40'), porphyritic syenite-gneiss. R. B. F., **M**, XII, 46.
- Bahdraputty (Badarpettai), *Trichinopoly* (58 I/12; 11° 11' 30" : 78° 31' 30"), cotton soil. W. K., **M**, IV, 353.
- Bandudih, *Ranchi* (73 F/13; 22° 55' : 85° 50'), potstone. J. A. D., **M**, LIV, 166.
- Banej-Nes, *Kathiawar* (41 K/16; 21° 2' : 70° 56'), galena and copper-pyrites. F. F., **M**, XXI, 134.
- Baner (Bainar), *Narsinghpur* (55 J/14; 22° 44' : 78° 51'), boring for coal. H. B. M., **R**, XII, 97=Benar.

- Banga, *Betul* (55 K/5; 21° 55' 30": 78° 22' 30"), Lameta limestone. H. H. H., R, XLIII, 36.
- Bangah, *Warangal* (63 C/9; 17° 55': 80° 43' 30"), hot spring. W. K., M, XVIII, 174=Buga.
- Bangal R., *Sirmur* (53 F/9; 30° 46': 77° 39'), Blaini beds. R. D. O., R, XX, 156; boulder bed, Jaunsar series. XXI, 132=Bhangal R.
- Bangalore, *Mysore* (57 H/9; 12° 58': 77° 35'), gneissose granite. R. B. F., R, XV, 193; earthquake, 1897. R. D. O., M, XXIX, 37; supposed coal. R. R. S., M, XLI, 103; kaolin, analysis. E. H. P., R, LII, 280.
- Bangaon, *Jessore* (79 A/16; 23° 2': 88° 50'), Calcutta earthquake, 1906. C. S. M., R, XXXVI, 225.
- Bangar Mahammadi, *Persia* (25 A/3; 27° 16' 30": 56° 12'), Fars series, fossils. G. E. P., M, XLVIII, pt. 2, 94.
- Bangarposi, *Mayurbhanj* (73 J/12; 22° 9': 86° 32' 30"), mica. P. N. B., R, XXXI, 171.
- Bangiwalla, *Waziristan* (38 H/14; 32° 33': 69° 59'), Janjal plant beds. M. S., R, LIV, 90.
- Bangurkela, *Gangpur* (73 B/15; 22° 17': 84° 58'), limestone. E. H. P., R, LXII, 57.
- Banhanwara, *Betul* (55 J/4; 22° 9': 78° 11' 30"), Talchir beds. E. H. P., R, LIX, 90.
- Banhuni, *Mergui* (96 J/10; 10° 43': 98° 42'), tin-ore. T. W. H. H., R, XXII, 194.
- Bania Pani, *Kalat* (35 I/8; 27° 13': 66° 20'), magnesite (?). E. V., R, XXXVIII, 211.
- Banihal pass, *Kashmir* (43 O/2; 33° 31': 75° 13'), section. R. L., R, IX, 161 (fig.); M, XXII, 139 (Pl. iii, fig. 1); Carboniferous beds. D. N. W., M, LI, 248.
- Banjal pass, *Jammu* (43 P/14; 32° 39': 75° 49'), Carbo-Triassic beds. C. A. M., R, XVI, 36.
- Banjan, *Simla* (53 E/4; 31° 5': 77° 0'), Blaini limestone. C. A. M., R, X, 207.
- Banjari Pat, *Ranchi* (73 A/7; 23° 22' 30": 84° 30'), bauxite. C. S. F., M, XLIX, 173.
- Banjuri, *Shahabad* (63 P/14; 24° 41': 83° 59' 30"), limestone quarries. L. L. F., R, XLVI, 246.
- Bankhap (Bari Khap), *Palamau* (73 A/13; 23° 52' 30": 84° 49'), galena. V. B., M, XV, 125.
- Banki hill, *Cuttack* (73 H/11; 20° 21': 85° 31'), gneiss. W. T. B., M, I, 263; R, V, 65.
- Banki R., *Surguja* (64 M/9; 23° 48': 83° 34'), sections of Gondwanas. C. L. G., M, XV, 162 (Pl. iii, fig. 3 & Pl. iv).
- Bankipore, *Patna* (72 G/2; 25° 37': 85° 9'), earthquake, 1897. R. D. O., M, XXIX, 827; Kangra earthquake, 1905. C. S. M., M, XXXVIII, 263; Srimangal earthquake, 1918. M. S., M, XLVI, 31.
- Banksimula, *Burdwan* (73 M/1; 23° 45': 87° 4'), colliery. R. R. S., M, XLI, Pl. ix.
- Bankura, *Bengal* (73 M/4; 23° 14': 87° 4'), gneiss. W. T. B., M, I, 258.
- Bankuravalsa, *Vizagapatam* (65 N/6; 18° 30': 83° 18'), manganese-ore. L. L. F., M, XXXVII, 508, 599, 1110.

- Bankyot (Bangyok), *Mergui* (95 P/4; 12° 9' : 99° 5' 30"), carbonaceous shales. P. N. B., R., XXVI, 151; R. R. S., M., XLI, 62.
- Banmanahalli (Bommanahalli), *Mysore* (57 D/11; 12° 19' : 76° 32'), mica. T. H. H., M., XXXIV, 68.
- Banmauk, *Katha* (83 P/15; 24° 24' : 98° 51'), auriferous quartz reef. C. L. G., A. R., 1901, 9; J. C. B., R., LVI, 85; Burma earthquake, 1912. J. C. B., M., XLII, 57.
- Banna, *Bashahr* (53 I/1; 31° 50' : 78° 10'), L. Trias. C. D., M., XXXVI, 334.
- Bannai, *Rewah* (63 L/7; 24° 22' : 82° 25'), Bijawar boulder bed. R. D. O., M., XXXI, 132.
- Banni Fateh Khan, *Attock* (43 C/10; 33° 35' : 72° 30' 30"), Pleistocene conglomerate. E. H. P., M., XL, 388.
- Bannu, *N. W. F. Prov.* (38 L/9; 32° 59' : 70° 36'), Kangra earthquake, 1905. C. S. M., M., XXXVIII, 228; water-supply. E. H. P., R., LVIII, 35.
- Banog, *Dehra Dun* (53 J/3; 30° 29' : 78° 1'), geodetic station. R. D. O., M., XLII, 249.
- Banota, *Punch* (43 K/6; 33° 42' 30" : 74° 23'), glaciated mountain slopes. D. N. W., M., LI, 311.
- Banposh, *Gangpur* (73 B/15; 22° 15' 30" : 84° 48'), limestone. E. H. P., R., LXII, 57.
- Banpyai, *Mergui* (95 P/3; 12° 17' 30" : 99° 8'), carbonaceous shale. R. R. S., M., XLI, 62.
- Banresur, *Hazaribagh* (72 H/14; 24° 39' : 85° 58'), dome-gneiss. T. H. H., M., XXXIV, 47.
- Banri, *Indore* (46 I/12; 23° 1' : 74° 40'), quartz-felsite sill. T. H. H., R., XXXVII, 47.
- Bansa, *Rewah* (64 A/10; 23° 37' : 80° 39' 30"), Jabalpur plants. O. F., R., XIII, 189.
- Bansa, *Sirmur* (53 F/10; 30° 41' : 77° 41'), Chail limestone. G. E. P., M., LIII, 37.
- Bansar, *Surguja* (64 M/8; 23° 7' : 83° 17'), coalfield. R. R. S., M., XLI, 81.
- Bansbari, *Cachar* (83 D/9; 24° 45' : 92° 34' 30"), brine springs. E. H. P., M., XL, 310.
- Bansgopal, *Moradabad* (53 L/10; 28° 33' 30" : 78° 32'), geodetic station. R. D. O., M., XLII, 218.
- Bansinghi, *Nagpur* (55 O/3; 21° 22' : 79° 8'), manganese-ore. L. L. F., M., XXXVII, 897.
- Banskata, *Singhbhum* (73 F/8; 22° 37' 30" : 85° 23'), altered lava. J. A. D., M., LIV, 40 (Pl. v, fig. 2).
- Bansko, *Jaipur* (54 B/1; 26° 50' : 76° 9'), basal beds. Delhi series. C. A. H., R., XIV, 296; A. M. H., R., LIV, 360.
- Bansri R., *Gwalior* (54 F/8; 26° 8' : 77° 28'), L. Bhanders, section. F. R. M., M., VII, 90.
- Bansuli, *Jeyapore* (65 I/8; 19° 3' : 82° 18'), dolomite, Cuddapah. T. L. W., A. R., 1900, 172.
- Banswal, (Chaman Sari), *Dehra Dun* (53 J/3; 30° 25' 30" : 78° 7'), meteorite. J. C. B., R., XLIII, 237; M., XLIII, 166.
- Bantanahal, *Bellary* (57 E/8; 15° 11' : 77° 18'), Dharwar schist and quartzite. R. B. F., R., XXII, 33.



- Banuri, *Kangra* (52 D/12; 32° 6': 76° 34'), former glacier. W. T. R, VII, 89°
- Banwali, *Punch* (43 K/1; 33° 46': 74° 2' 30'), Murree beds, synclinal. D. N. W., M, LI, 321.
- Baoli (Bawali), *Karauli* (54 B/15; 26° 25': 76° 55' 30'), fault. A. M. H., M, XLV, 170; indurated Bhandar sandstone, 179.
- Baoli, *Kathiawar* (41 N/5; 22° 56': 71° 24'), whetstone. F. F., M, XXI, 135.
- Baonli, *Jaipur* (54 B/3; 26° 20': 76° 14'), Aravalli quartzites and schists. A. M. H., R, LIV, 355.
- Baori (Bhori), *Alwar* (54 A/7; 27° 25' 30": 76° 29'), ferruginous breccia. A. M. H., M, XLV, 68.
- Baorli, *Jodhpur* (45 B/11; 26° 22': 72° 43' 30"), rhyolite. T. D. L., M, XXXV, 46.
- Bap, *Jaisalmer* (45 A/7; 27° 22': 72° 21'), boulder beds. R. D. O., R, XXI, 30; T. D. L., M, XXXV, 31; A. M. H., R, LXV, 464.
- Baplaimalai, *Kalahandi* (65 I/15; 19° 21': 82° 58'), laterite. V. B., R, X, 169; C. S. F., M, XLIX, 183.
- Bapu, Bappa Pung, *Lakhimpur* (83 M/11; 27° 23' 30": 95° 39'), petroleum. F. R. M., M, XII, 357; oilfield. E. H. P., M, XL, 301 (Pl. lxii).
- Bar, *Jodhpur* (45 J/4; 26° 5': 74° 6'), gneiss and Alwar quartzites. C. A. H. R, XIV, 284; graphite. E. H. P., R, LVI, 29.
- Bar Pat, *Ranchi* (73 A/7; 23° 17': 84° 26'), bauxite. C. S. F., M, XLIX, 178.
- Bara, *Birbhum* (73 M/1; 23° 47' 30": 87° 10'), quartz vein in Barakars. W. T. B. M, III, 47.
- Bara, *Punch* (43 K/6; 33° 41': 74° 19' 30"), Panjal ash beds. D. N. W., M, LI, 240.
- Bara, *Santal Parganas* (72 P/3; 24° 22' 30": 87° 11'), hot spring. T. O., M, XIX, 140.
- Bara Bana, *Saraikeela* (73 F/14; 22° 37' 30": 85° 55'), serpentine in granite. J. A. D., M, LIV, 98; altered dolerite, 134; asbestos, 157; L. L. F., R, LIII, 252.
- Bara Banki, *United Provs.* (63 F/1; 26° 56': 81° 12'), Kangra earthquake, 1905. C. S. M., M, XXXVIII, 245.
- Bara Barhi, *Surguja* (64 M/2; 23° 39' 30": 83° 14'), Mahadeva scarp. C. L. G., M, XV, 149 (Pl. vi, fig. 2).
- Bara Chada, *Rewah* (64 E/3; 23° 21': 81° 1'), coal seam. T. W. H. H., M, XXI, 237.
- Bara Chhari, *Punch* (43 K/5; 33° 49': 74° 18' 30"), Dogra slates. D. N. W., M, LI, 305, 307.
- Bara Daigaon (Daigawan Kalan), *Rewah* (64 A/15; 23° 22': 80° 59' 30"), *Vertebraria*. T. W. H. H., R, XIV, 319.
- Bara Fort, *Peshawar* (38 O/5; 33° 55': 71° 28'), Carboniferous limestone. H. H. H., M, XXVIII, 108.
- Bara Hoti, *Garhwal* (53 N/13; 30° 51' 30": 79° 58'), Triassic beds, section. C. L. G., M, XXIII, 133.
- Bara Kadel, *Saraikeela* (73 J/2; 22° 34': 86° 4'), steatite. E. H. P., R, LVI, 34.
- Bara Shigri glacier, *Lahul* (52 H/11; 32° 17': 77° 36'), antimony and zinc blende. F. R. M., M, 165, 166: survey. H. W-r, R, XXXV, 144 (Pls. xlv-xlvi & lxi)=Shigri.

- Barabakand, *Chittagong* (79 N/10; 22° 35': 91° 41'), gas springs. E. H. P., **M**, XL, 199, 313.
- Barabchah, *Afghanistan* (34 C/3; 29° 27': 64° 3'), eurite. T. H. H., **R**, XXX, 126; basalt dyke, 128.
- Barabhum, *Mambhum* (73 I/8; 23° 2': 86° 22'), manganiferous iron-ore. L. L. F., **M**, XXXVII, 615.
- Baraboni, *Burdwan* (73 M/2; 23° 45': 87° 0' 30"), colliery. W. T. B., **M**, III, 104.
- Barachak, *Burdwan* (73 I/14; 23° 42' 30": 86° 55' 30"), colliery. W. T. B., **M**, III, 112.
- Baraduar, *Bilaspur* (64 J/16; 22° 0' 30": 82° 49'), limestone. H. C. J., **R**, LVII, 133.
- Baragunda, *Hazaribagh* (72 L/4; 24° 5': 86° 3'), copper-ore. T. H. H., **R**, XXXIX, 234; L. L. F., **R**, LIII, 264.
- Barai, *Gwalior* (54 J/4; 26° 7': 78° 0' 30"), trap flow. C. A. H., **R**, III, 38.
- Baraitola, *Ranchi* (73 F/1; 22° 50': 85° 6'), biotite-gneiss. L. A. N., **R**, LXV, 506 (Pl. xxviii, fig. 1); analysis, 509.
- Baraiyadhala, *Chittagong* (79 N/10; 22° 41': 91° 38'), gas springs. E. H. P., **M**, XL, 313.
- Barakar, *Burdwan* (73 I/14; 23° 44' 30": 86° 49'), mica-trap, petrology. P. N. B., **R**, XXI, 163; fire-clay. F. R. M., **R**, XXII, 143.
- Baralatse (Baralacha) pass, *Lahul* (52 H/6; 32° 44': 77° 26'), U. Tagling limestone. F. S., **M**, V, 123; Muth-Kuling beds (?). R. L., **M**, XXII, 250.
- Baramasia, *Santal Parganas* (72 P/10; 24° 31': 87° 39'), hot spring. L. L. F., **R**, LIII, 291.
- Barambab, *Makran* (31 K/11; 25° 18': 62° 34'), Makran series, mollusca. E. V., **M**, L, 76, 80, 377, etc.
- Baramgala, *Punch* (43 K/6; 33° 36' 30": 74° 25'), waterfall. D. N. W., **M**, LI, 206; lava flows, Dogra alate period, 315.
- Baramula, *Kashmir* (43 J/8; 34° 13': 74° 20'), L. Karewah deposits. R. L., **R**, IX, 162; XI, 31; **M**, XXII, 77; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 187.
- Baranas, *Chitral* (42 D/4; 36° 4': 72° 2'), Reshun conglomerate. H. H. H., **R**, XLV, 283.
- Barang Buru, *Singhbhum* (73 F/2; 22° 37': 85° 9'), granite veins in schist. J. A. D., **M**, LIV, 117; iron-ore, 163.
- Baranow, *Isagarh* (54 L/6; 24° 33' 30": 78° 15' 30"), Vindhyan-granite boundary. H. B. M., **M**, II, 60.
- Barapur, *Cutch* (41 E/12; 23° 8': 69° 38'), dykes in Jurassic beds. A. B. W., **M**, IX, 188 (figs.).
- Barari, *Mambhum* (73 I/6; 23° 42': 86° 28'), cryptohalite. W. K. C., **R**, LIX, 233.
- Barari Tangi, *Waziristan* (38 L/2; 32° 32': 70° 1'), Janjal plant beds. M. S., **R**, LIV, 90; belemnite shales, 95.
- Barata, *Saugor* (54 L/15; 24° 17': 78° 56'), Bijawar series. H. B. M., **M**, II, 40; iron-ore, 46.
- Baraunda, *Baghelkhand* (63 C/12; 25° 2': 80° 38'), ochre. L. L. F., **R**, XLVI, 279.
- Barawari, *Simla* (53 A/16; 31° 2' 30": 76° 59' 30"), Blaini beds. C. A. M., **R**, X, 207.
- Barbaspur, *Surguja* (64 M/7; 23° 23': 83° 18'), Talohir beds. V. B., **R**, VI, 28.

- Barche glacier, Gilgit** (42 L/12; 36° 4': 74° 40'), survey. H. H. H., R, XXXV, 130 (Pls. xx-xxii & xxiv).
- Baroul, Puri** (73 H/11; 20° 20': 85° 44'), boring site for coal. V. B., R, X, 68.
- Barda hills, Kathiawar** (41 G/9; 21° 50': 69° 45'), igneous rocks. F. F., M, XXI, 97.
- Bardaria hill, Rajpipla** (46 G/6; 21° 40': 73° 19'), trachyte. P. N. B., R, XXXVII, 173.
- Bardghatta, Rewah** (64 I/9; 23° 58': 82° 43'), mica. T. H. H., M, XXXIV, 54.
- Bardi Rewah** (63 L/6; 24° 33': 82° 22'), Kheinjua limestone. P. N. D., R, XXIX, 80; L. Vindhyan, section. R. D. O., M, XXXI, 126=Burdhee.
- Bardun, Zangskar** (52 C/15; 33° 24': 76° 55'), reported occurrence of sapphires. T. D. L., R, XXIII, 66.
- Bardwan, Bengal** (73 M/16; 23° 14': 87° 51'), earthquake, 1897. E. V., M, XXIX, 313=Burdwan.
- Barilly, United Provs.** (53 P/7; 28° 21': 79° 24'), earthquake, 1897, time record. R. D. O., M, XXIX, 66, 71; Kangra earthquake, 1905. C. S. M., M, XXXVIII, 213.
- Barol, Indore** (55 B/3; 22° 22' 30": 76° 10'), manganiferous breccia. L. L. F., M, XXXVII, 677.
- Barela, Simla** (53 F/5; 30° 52': 77° 22'), granite and felspathic schist, petrology. C. A. M., R, XVII, 63.
- Bareta, Bhopal** (55 F/13; 22° 52': 77° 50'), ossiferous conglomerate. W. T., M, II, 280.
- Barfak, Afghanistan** (38 A/3; 35° 22': 68° 9'), Red Grit series. H. H. H., M, XXXIX, 65 (Pl. xvi).
- Bargaon, Rewah** (64 E/12; 23° 11': 81° 36' 30"), coal seam. T. W. H. H., M, XXI, 182; R. R. S., M, XLI, 78.
- Bargawan, Jabulpore** (64 A/5; 23° 50': 80° 23'), bauxite. C. S. F., M, XLIX, 122.
- Bargawan, Mirzapur** (63 L/14; 24° 36': 82° 54' 30"), porcellanite beds, Transition series. R. D. O., M, XXXI, 164.
- Barghat, Jaintia Hills** (83 C/4; 25° 10': 92° 14'), nummulitic limestone. P. N. B., A. R., 1902, 26.
- Bargo, Santal Parganas** (72 P/6; 24° 30' 30": 87° 24'), fire-clay. M. S., R, XXXVIII, 142=Burgo.
- Bargur, Coimbatore** (58 E/9; 11° 48': 77° 32'), hypersthene-bearing rocks. C. L. G., R, XXIX, 60.
- Barha, Jaipur** (45 M/15; 27° 16': 75° 55'), granite, petrology. A. M. H., R, LIV, 379.
- Barhamasia, Hazaribagh** (72 L/2; 24° 43': 86° 2'), cerussite. F. R. M., R, VII, 35.
- Barhana, Simla** (53 E/8; 31° 12': 77° 20'), Nummulitic beds. G. E. P., M, LIII, 111; inlier, Shali limestone, 125.
- Barhata, Rewah** (63 H/4; 24° 4': 81° 11'), Vindhyan outlier. R. D. O., R, XXVIII, 142 (Pl. vi, figs. 2, 3); M, XXXI, 113 (figs.).
- Barhatola, Rewah** (63 H/8; 24° 5': 81° 18'), vesicular quartz-rock. R. D. O., M, XXXI, 116.
- Barhuth, Rewah** (64 A/14; 23° 31': 80° 58'), *Danæopsis*. G. C., R, XLVIII, 32.
- Bari, Bhopal** (55 I/4; 23° 2' 30": 78° 5'), pre-trappean fault. E. V., A. R., 1908, 39.
- Bari, Tonk** (45 L/10; 24° 31': 74° 40'), Jiran sandstones. E. H. P., R, LIX, 97.

- Bari Sadri, *Mewar* (45 L/7; 24° 25': 74° 29'), Delhi quartzites and shales. C. A. H., R, XIV, 294; E. H. P., R, LIX, 94.
- Bariara (Baruhla), *Chamba* (43 P/15; 32° 29': 75° 59'), 'erratics'. C. A. M., R, XV, 50.
- Barikab, *Afghanistan* (38 F/10; 34° 31': 69° 40'), carbonaceous shale. H. H. H., M, XXXIX, 45.
- Bari-ka-Bugla, *Hazara* (43 F/8; 34° 12': 73° 27' 30'), gypsum. C. S. M., M, XXVI, 287.
- Barikondam (Barahchomridhana), *Chhindwara* (55 J/7; 22° 21': 78° 28'), Bijori stage, plants. O. F., R, XII, 76.
- Baripada, *Mayurbhanj* (73 K/9; 21° 56': 86° 43'), pottery clay. P. N. B., R, XXXI, 172; boring in Tertiary beds. XXXIV, 42; foraminifera from boring. G. H. T., R, XXXIV, 135.
- Barisal, *Backergunge* (79 J/6; 22° 42': 90° 22'), earthquake, 1897. P. N. B., M, XXIX, 315; Srimangal earthquake, 1918. M. S., M, XLVI, 26.
- Barka, *Kalahandi* (65 M/2; 19° 43': 83° 9'), laterite. C. S. F., M, XLIX, 183.
- Barkatta, *Birbhun* (72 P/12; 24° 4': 87° 38'), iron-ore. T. W. H. H., M, XIII, 244; analysis, 248.
- Barkhari, *Bhopal* (55 F/7; 23° 25': 77° 16'), laterite. C. S. F., M, XLIX, 108.
- Barkoi, Barkui, *Chhindwara* (55 J/12; 22° 11': 78° 42'), coalfield. W. T. B., R, XV, 132; E. J. J., M, XXIV, 23 (Pl. i); R. R. S., M, XLI, 94; white trap. petrology. C. S. F., R, XLIV, 123 (figs.).
- Barkot, *Tehri* (53 J/1; 30° 48' 30": 78° 12' 30"), gneissose granite. C. S. M., R, XX, 31.
- Barla, *Kishangarh* (45 J/15; 26° 29': 74° 58'), fluor spar. L. L. F., R, XLVI, 267.
- Barlias, *Mewar* (45 K/16; 25° 12': 74° 53'), Gwalior series-granite contact. E. H. P., R, LX, 118.
- Barmer, *Jodhpur* (40 O/6; 25° 44' 30": 71° 23'), sandstones. T. D. L., M, XXXV, 33; Kangra earthquake, 1905. C. S. M., M, XXXVIII, 239=Balmir.
- Barmiak, *Sikkim* (78 A/8; 27° 13': 88° 28'), copper-ore. P. N. B., R, XXIV, 226.
- Barmul pass, *Angul* (73 D/14; 20° 35': 84° 47'), garnetiferous gneiss. V. B., R, X, 182.
- Barmundi, *Manbhum* (73 I/9; 23° 46': 86° 32'), coked coal. E. H. P., R, LXIII, 121.
- Barmuri, *Manbhum* (73 I/13; 23° 45': 86° 49'), coal seams. W. T. B., M, III, 60.
- Barnel, *Jodhpur* (45 I/8; 27° 12': 74° 17'), boulders. A. M. H., R, LXV, 481; Vindhyan limestone, 486.
- Barni, *Korea* (64 I/8; 23° 12': 82° 28' 30"), coal seam. L. L. F., M, XLI, 193, 220.
- Barochi pass, *Mianwali* (38 P/1; 32° 56': 71° 9'), coal seams. R. R. S., R, XXXI, 21; M, XLI, 111.
- Barod, *Ahwar* (54 A/5; 27° 53' 30": 76° 22'), Kushalgarh limestone. A. M. H., M, XLV, 60; Ajabgarh series, section, 76 (fig.).
- Baroda, *Bombay* (46 F/3; 22° 18': 73° 12'), gravels intercalated with Deccan trap. W. T. B., M, VI, 148; natural gas. L. L. F., R, LIV, 27; E. H. P., R, LV, 19; earthquakes: Cutch, 1819. R. D. O., M, XLVI, 113; aftershocks, 117; Assam, 1897, XXIX, 50.
- Baroda, *Jaipur* (54 A/3; 27° 21'; 76° 2' 30"), Aravalli granite. A. M. H., R, LIV, 363; petrology, 379.

- Barodhia, *Bundi* (45 O/11; 25° 29' : 75° 35'), glass-making sand. A. L. C., **R**, LX, 200.
- Barog, *Simla* (53 F/1; 30° 53' : 77° 5'), Simla slates. G. E. P., **M**, LIII, 6.
- Baroghil pass, *Chitral* (42 H/5; 36° 54' : 73° 23'), Devonian fossils. H. H. H., **M**, XXXIX, 75; **R**, XLV, 290; F. C. R., **R**, XLI, 86 (Pl. vii).
- Baroi, *Rawalpindi* (43 G/10; 33° 43' : 73° 36'), L. Murree plants. D. N. W., **M**, LI, 269.
- Baroti, *Bilaspur State* (53 A/10; 31° 33' : 76° 38'), meteorite. G. C., **R**, XLII, 273 (Pl. xlii, fig. 3); J. C. B., **M**, XLIII, 166.
- Baroudi, *Rewah* (64 A/10; 23° 30' 30" : 80° 40'), pottery clay. F. R. M., **R**, XXII, 142.
- Barrackpore, *24-Parganas* (79 B/5; 22° 47' : 88° 21'), Cachar earthquake, 1869. T. O., **M**, XIX, 33, 64.
- Barrah hill, *Karachi* (35 N/16; 26° 6' : 67° 53'), Cretaceous beds. W. T. B., **R**, XI, 163; **M**, XVII, 33, 131 (Pl. v, fig. 2); E. V., **R**, XXXVI, 185 (fig.).
- Barren I., *Andaman Sea* (86 H/15; 12° 16' : 93° 50'), volcano. V. B., **R**, VI, 82; E. H. P., **M**, XL, 47; F. R. M., **M**, XXI, 254 (Pls. i-iii); condition in 1846. **R**, XLI, 217; hot spring. V. B., **R**, VI, 87; T. O., **M**, XIX, 154; F. R. M., **M**, XXI, 274; **R**, XX, 48 (note); XXVIII, 33; soundings off—. A. Carpenter, **R**, XX, 46 (Pls. iv, v).
- Bartunga hill, *Korea* (64 I/8; 23° 9' 30" : 82° 19' 30"), Deccan trap. L. L. F., **M**, XLI, 157; Barakars, 171; coal seams, 202, 208 (Pl. xxi).
- Barundni, *Mewar* (45 K/16; 25° 10' : 74° 56' 30"), Vindhyan boundary. C. A. H., **R**, XIV, 290; E. H. P., **R**, LIX, 95.
- Barur, *Punch* (43 K/1; 33° 50' 30" : 74° 12'), cirque. D. N. W., **M**, LI, 288.
- Barus, *Kashmir* (43 K/13; 33° 57' : 74° 59' 30"), Carbo-Triassic sequence. C. S. M., **R**, XXXVII, 314 (Pl. xxxiii); U. Trias. XL, 252.
- Barut, *Chhindwara* (55 J/7; 22° 24' : 78° 17' 30"), Deccan trap sill. L. L. F., **R**, LXV, 98.
- Barwa, *Gaurihar* (63 C/7; 25° 23' : 80° 18'), gypsum. T. D. L., **R**, XXXVII, 285.
- Barwa, *Nagpur* (55 P/5; 20° 57' : 79° 19'), gonditic rocks. L. L. F., **R**, LXV, 105.
- Barwai, *Indore* (55 B/3; 22° 15' 30" : 76° 2'), Bijawar unconformity. P. N. B., **M**, XXI, 13; iron-ore, 64, 67=Burwai.
- Barwar, *Kulu* (53 E/6; 31° 42' 30" : 77° 15' 30"), Kangra earthquake, 1905, lake formed by landslide. C. S. M., **M**, XXXVIII, 69 (Pl. xv, fig. 2).
- Basadela, *Gonda* (63 I/7; 27° 24' : 82° 17'), geodetic station. R. D. O., **M**, XLII, 213.
- Basali, *Rawalpindi* (43 G/3; 33° 23' 30" : 73° 8'), M. Siwalik beds. D. N. W., **M**, LI, 342.
- Basantpur, *Simla* (53 E/4; 31° 12' 30" : 77° 10'), limestone. H. B. M., **M**, III, pt. 2, 48; galena. H. H. H., **R**, XLII, 76; Chail series. G. E. P., **M**, LIII, 114; albite-dolorite, 126.
- Basaoli, *Jammu* (43 P/15; 32° 30' : 75° 49'), Siwalik beds. C. A. M., **R**, XVI, 35.
- Basavankote, *Chitaldrug* (57 B/2; 14° 40' : 76° 7' 30"), hematite-quartzite with manganese-ore. L. L. F., **M**, XXXVII, 1121.

- Basawal, *Afghanistan* (38 J/16; 34° 15' : 70° 52'), metamorphic rocks. H. H. H., **M**, XXXIX, 41.
- Baser, *Korea* (64 I/7; 23° 21' : 82° 22' 30"), coal seams. T. W. H. H., **M**, XXI, 201, 238.
- Basharat, *Jhelum* (43 H/1; 32° 47' : 73° 5' 30"), water-supply. E. H. P., **R**, LXIII, 77.
- Bashisht, *Kulu* (52 H/3; 32° 16' : 77° 11' 30"), hot spring, sulphurous. T. O. **M**, XIX, 120=Basisht.
- Basho, *Ladakh* (43 M/7; 35° 28' : 75° 22'), schistose and granitic gneiss. R. L., **R**, XIV, 7.
- Basi, *Alwar* (54 A/7; 27° 22' : 76° 15' 30"), hornstone breccia. A. M. H., **M**, XLV, 69; granite, 94; flagstones, 97, 127.
- Basi, *Jaipur* (54 B/1; 26° 50' : 76° 3'), Aravalli quartzite and limestone. A. M. H., **R**, LIV, 358.
- Basi, *Mewar* (45 K/16; 25° 1' : 74° 46'), L. Vindhyan beds. C. A. H., **R**, XIV, 291; E. H. P., **R**, LIX, 106.
- Basi, *Rewah* (64 E/5; 23° 55' : 81° 18'), manganese-ore. T. W. H. H., **R**, XIV, 138; L. L. F., **M**, XXXVII, 690.
- Basidu, *Persian Gulf* (18 N/6; 26° 39' : 55° 17'), littoral concrete. G. E. P., **M**, XXXIV, pt. 4, 130.
- Basirhat, *24-Parganas* (79 B/14; 22° 40' : 88° 52'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 225.
- Basisht, *Kulu* (52 H/3; 32° 16' : 77° 11' 30"), Kangra earthquake, 1905, effect on hot spring. C. S. M., **M**, XXXVIII, 76=Bashisht.
- Baskai, *D. I. Khan* (39 I/3; 31° 29' : 70° 7'), overfold in Nummulitic beds. T. D. L., **R**, XXVI, 81 (Pl. viii).
- Basoli, *Hoshiarpur* (53 A/7; 31° 28' : 76° 19'), Siwalik conglomerate. H. B. M., **R**, IX, 57.
- Baspaitali, *Bankura* (73 I/14; 23° 37' : 86° 54'), Panchet beds, section. W. T. B., **M**, III, 130.
- Bassargi, *Belgaum* (48 M/1; 15° 54' : 75° 11'), iron-ore. R. B. F., **M**, XII, 112, 263.
- Bassein, *Burma* (85 L/9; 16° 47' : 94° 44'), earthquake, July, 1912. J. C. B., **M**, XLII, 131; Srimangal earthquake, 1918. M. S., **M**, XLVI, 26; water-supply. L. L. F., **R**, LXV, 67.
- Bastari, *Gwalior* (54 J/8; 26° 7' : 78° 17'), pre-Vindhyan erosion of Gwaliora. C. A. H., **R**, III, 40 (fig.)=Bustori.
- Basti, *United Provs.* (63 J/9; 26° 47' : 82° 43'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 247=Bustee.
- Basti Algaḍ, *Mianwali* (38 P/6; 32° 32' 30" : 71° 20'), oil seepage. A. B. W., **M**, XVII, 269 (fig. & Pl. vi)=Domniwala.
- Bastkola, *Manbhūm* (73 I/5; 23° 46' : 86° 25'), mullite. J. A. D., **M**, LII, 150 (note).
- Baswa, *Jaipur* (54 A/12; 27° 9' : 76° 35'), pre-Delhi rocks. A. M. H., **M**, XLV, 18, 89.
- Baswapur (Basavapuram), *Kurnool* (57 I/11; 15° 24' 39" : 78° 38'), zinc-ore. F. R. M., **R**, XIV, 196, 305=Buswapoor.

- Batala Hil, *Punch* (43 K/5; 33° 51' 30" : 74° 16'), Muth quartzite. D. N. W., M, LI, 233, 306, 368.
- Batara (Bhatali), *Chanda* (55 P/4; 20° 12' 30" : 79° 4'), Intertappean limestone (?). C. A. Matley, R, LIII, 159.
- Batap, *Persia* (22 I/3; 36° 24' : 58° 13'), lead mines. A. H. Schindler, R, XVII, 136.
- Batewli, *Sirmur* (53 F/10; 30° 40' : 77° 36'), Krol slates and limestone. H. B. M., M, HI, pt. 2, 45.
- Bath Bun I., *Amherst* (95 E/12; 15° 10' : 97° 44'), granodiorite. E. H. P., R, LXII, 101.
- Baticaloa (Koddamunai), *Ceylon* (68 E/10; \* 7° 43' 30" : 81° 42'), hot spring. T. O., M, XIX, 154.
- Batkurki, *Rijapur* (47 P/8; 16° 4' 30" : 75° 22'), olivine-dolerite. R. B. F., M, XII, 182.
- Batol, *Patiala* (53 E/4; 31° 6' 30" : 77° 2' 30"), phyllites, Chail series. G. E. P., M, LIII, 94.
- Batrasi, *Hazara* (43 F/7; 34° 24' : 73° 20'), Tanawal series. D. N. W., R, LXV, 205.
- Batri, *Chamba* (43 P/14; 32° 34' : 75° 59'), gneiss, petrology. C. A. M., R, XVII, 64.
- Batta, *Ohhindwara* (55 J/8; 22° 9' 30" : 78° 20'), colliery. J. C. B., R, LVII, 61.
- Batura glacier, *Hunza* (42 L/10; 36° 35' : 74° 38'), movements of snout. K. M., R, LXIII, 239 (Pl. vi, 8).
- Batuva, *Vizagapatam* (65 N/11; 18° 20' : 83° 39'), manganese ore. L. L. F., M, XXXVII, 435, 462-3, 1048.
- Bauch, *Manbhurn* (73 J/9; 22° 59' : 86° 35' 30"), hematite. V. B., M, XVIII, 77.
- Baukrappett (Bagarapet), *Cuddapah* (57 J/15; 14° 27' : 78° 56' 30"), siliceous limestone, Cheyair series. W. K., M, VIII, 211.
- Baukthauk, *Sagaing* (84 N/16; 22° 8' : 95° 50'), salt. E. H. P., R, LXII, 61.
- Baumi, *Bassein* (85 K/11; 17° 19' : 94° 34'), limestone. W. T., M, X, 309, 345.
- Bavda, *Kolhapur* (47 H/14; 16° 32' 30" : 73° 50'), bauxite. C. S. F., M, XLIX, 81.
- Bavihal, *Belgaum* (48 I/13; 15° 49' 30" : 74° 45'), dioritic trap. R. B. F., M, XII, 182.
- Bavur (Bahur), *Pondicherry* (58 M/9; 11° 48' : 79° 44' 30"), lignite. W. K., R, XVII, 194; R. R. S., M, XLI, 103.
- Baw, *Mandalay* (93 C/9; 21° 53' 30" : 96° 32'), Plateau Limestone, analysis. T. D. L., M, XXXIX, pt. 2, 188.
- Bayabin, *Tavey* (95 J/8; 14° 8' 30" : 98° 25'), wolfram. J. C. B., M, XLIV, 240.
- Bayan, *Kashmir* (43 O/1; 33° 45' 30" : 75° 13'), cavern. R. L., M, XXII, 81 = Bowan.
- Bawdibin, *L. Chindwin* (84 J/10; 22° 37' : 94° 30'), petroleum. E. H. P., M, XL, 141.

\* Sheet J/5 Ceylon Topographical Survey 1 in.=1 mile.

- Bawdwin, *N. Shan States* (93 E/8; 23° 6' : 97° 20'), silver-lead mines. T. D. L., **R**, XXXVII, 235 (Pls. xii-xxiv). J. C. B., **R**, XLVIII, 121 (Pls. ii-viii); LVI, 88; Volcanic series. T. D. L., **M**, XXXIX, pt. 2, 55; landslip, 1926. E. H. P., **R**, LXI, 40.
- Bawentauri R., *Seoni* (55 O/10; 21° 33' : 79° 36'), alluvial gold. H. H. H., **R**, XLIV, 20.
- Bawgyo, *N. Shan States* (93 F/2; 22° 35' : 97° 14' 30"), brine well. F. N., **R**, XXIV, 111, 129; T. D. L., **R**, XXXV, 97 (Pl. xvi); **M**, XXXIX, pt. 2, 376; Burma earthquake, 1912. J. C. B., **M**, XLII, 35.
- Rawhlaing, *N. Shan States*, iron-ore. J. C. B., **R**, LXI, 185. See Wetwin.
- Bawzaing, *S. Shan States* (93 D/13; 20° 57' : 96° 46' 30"), silver-lead mines. E. J. J., **R**, XX, 191; J. C. B., **R**, LVI, 90, LXV, 417; E. H. P., **R**, LIX, 46=Mawson.
- Baxa, *Jalpaiguri* (78 F/9; 26° 45' : 89° 34'), dolomite. F. R. M., **M**, XI, 34; copper-ore, 79; Cachar earthquake, 1869. T. O., **M**, XIX, 31; earthquake, 1897. H. H. H., **M**, XXIX, 288.
- Bayr (Ber Mota), *Cutch* (41 A/11; 23° 28' : 68° 36'), Gaj series, mollusca. E. V., **M**, L, 82, 91, 423, 426.
- Bazar valley, *Khyber* (38 O/1; 33° 58' : 71° 3'), *Productus* limestone. H. H. H., **M**, XXVIII, 111; XXXIX, 74.
- Bazargaon, *Nagpur* (55 K/16; 21° 8' : 78° 46'), inlier of Kamthi beds. W. T. B., **M**, IX, 314; borings for coal. T. H. H., **R**, XXXIX, 57.
- Bazuna Kolur (Rajan Kollur), *Gulbarga* (56 D/7; 16° 22' 30" : 76° 28'), dolmens. R. B. F., **M**, XII, 143.
- Beawar, *Merwara* (45 J/8; 26° 6' : 74° 19'), Alwar quartzite. C. A. H., **R**, XIV, 284.
- Beacon I., *Kyaukpypu* (85 F/5; 18° 56' : 93° 27'), mud volcano. J. C. B., **R**, XXXVII, 269.
- Behar Nani, *Idar* (46 E/2; 23° 39' : 73° 15'), dip slope in Delhi quartzites. C. S. M., **M**, XLIV, 88.
- Bechun, *Jaipur* (45 N/5; 26° 49' : 75° 21' 30"), Aravalli quartzites and schists. A. M. H., **R**, LIV, 357.
- Beddadanol (Bedadanuru), *Godavari* (65 G/4; 17° 14' 30" : 81° 14'), coalfield. W. K., **R**, V, 112; VI, 57; VII, 159; X, 55; XV, 202 (Pls. xv); **M**, XVIII, 195, 247; R. R. S., **M**, XLI, 107.
- Beddaloor (Beduduru), *Cuddapah* (57 J/1; 14° 46' 30" : 78° 6' 30"), 'ash' beds, Cheyair series. W. K., **M**, VIII, 185; intrusive trap, 200 (figs.).
- Beder, *Hyderabad* (56 G/9; 17° 55' : 77° 32'), hot spring. T. O., **M**, XIX, 145.
- Bedesir (Bhadasar), *Jaisalmer* (40 I/12; 27° 1' 30" : 70° 43'), Jurassic sandstones. R. D. O., **R**, XIX, 158.
- Bednor, *Mewar* (45 K/5; 25° 50' : 74° 17'), basal conglomerate, Alwar series. E. H. P., **R**, LVIII, 63.
- Bedori, *Kashmir* (43 K/1; 34° 0' : 74° 9'), limestone, Dogra slate series. D. N. W., **M**, LI, 230; Gondwana beds, 244.
- Bedri Gali, *Hazara* (43 F/10; 34° 35' 30" : 73° 33'), Infra-Trias beds. D. N. W., **R**, LXV, 208.
- Begaijan *Persia* (24 A/12; 31° 5' 30" : 56° 44'), dolerite dykes. G. H. T., **R**, LIII, 60.



- Begal, *Afghanistan* (33 M/8; 35° 11' : 67° 27'), overthrust. H. H. H., **M**, XXXIX, 3 (Pl. iii); Saighan series, 30; Doab series, 59, 60; Cretaceous fossils. H. S. B., **R**, LVI, 261, 264, 268.
- Begarmal (Bokra), *Hazara* (43 F/8; 34° 6' : 73° 16' 30"), coal seam. C. S. M., **M**, XXVI, 41; R. R. S., **M**, XLI, 112; analyses. G. S. L., **R**, XXVI, 107.
- Begopur, *Patiala* (54 A/1; 27° 56' : 76° 4'), quartzite. P. N. B., **R**, XXXIII, 60.
- Begota, *Alwar* (54 A/8; 27° 12' : 76° 28'), marble. A. M. H., **M**, XLV, 61.
- Begun, *Singhbhum* (73 F/10; 22° 37' : 85° 33'), quartz veins. J. A. D., **M**, LIV, 142.
- Begunia, *Burdwan* (73 I/14; 23° 44' : 86° 49'), coal seam. R. R. S., **M**, XLI, 44; Barakar-Ironstone boundary. C. S. F., **R**, LX, 363 (Pl. xxviii, fig. 2) = Bagonia.
- Behara hill, *Banda* (63 C/16; 25° 12' : 80° 48'), Semri series. H. B. M., **M**, II, 16.
- Beharinath hill, *Bankura* (73 I/14; 23° 34' 30" : 86° 56' 30"), 'Upper Panchet' beds. W. T. B., **M**, III, 130.
- Behat, *Gwalior* (54 J/12; 26° 10' : 78° 32'), psilomelane. L. L. F., **M**, XXXVII, 366.
- Behbahan, *Persia* (10 J/6; 30° 35' : 50° 18'), petroleum spring. G. E. P., **M**, XXXIV, pt. 4, 146.
- Beijnath, *Kangra* (52 D/12; 32° 3' : 76° 38'), Nahan beds. H. B. M., **M**, III, pt. 2, 150=Bajinath.
- Beji R., *Sibi* (39 C/N. W.; 29° 49' : 68° 25'), sub-recent gravels. R. D. O., **R**, XXV, 24; change in course, 28.
- Beke Taung, *Amherst* (95 E/14; 15° 43' : 97° 59'), Moulmein Limestone. E. H. P., **R**, LXIII, 96.
- Bela, *Attock* (38 O/15; 33° 24' 30" : 71° 54'), fault. L. L. E., **R**, LXV, 122.
- Bela (Las Bela), *Baluchistan* (35 J/8; 26° 14' : 66° 19'), antimony and lead. C. L. G., **M**, XVIII, 57.
- Bela, *Gwalior* (54 J/4; 26° 7' 30" : 78° 5' 30"), trap flow. C. A. H., **R**, III, 38.
- Bela, *Rewah* (63 H/8; 24° 12' 30" : 81° 18'), L. Vindhyan quartzite. P. N. D., **R**, XXVIII, 147; **M**, XXXI, 142.
- Bela I., *Cutch* (41 I/9; 23° 52' : 70° 40'), geology. A. B. W., **M**, IX, 110.
- Bela peak, *Punch* (43 K/10; 33° 30' : 74° 31'), Dogra slates. D. N. W., **M**, LI, 313.
- Belad El Kadim, *Persian Gulf* (11 J/12; 26° 13' : 50° 35'), gypsum. G. E. P., **M**, XXXIV, pt. 4, 159.
- Belaidiha, *Bankura* (73 N/1; 22° 57' : 87° 1'), fault. V. B., **M**, XVIII, 74, 76.
- Belaiapahari, *Singhbhum* (73 J/5; 22° 49' 30" : 86° 17'), potstone. V. B., **M**, XVIII, 149.
- Belakchi, *E. Turkestan* (51 L/3; 36° 20' : 78° 5'), jade mines. F. S., **R**, VII, 51.
- Belaspur, *Punjab* (53 A/15; 31° 20' : 76° 45'), Siwalik conglomerates. H. B. M., **M**, III, pt. 2, 135=Bilaspur.
- Belawa peak, *Rewah* (63 L/11; 24° 26' : 82° 30'), Bijawar rocks. E. V., **M**, XXXI, 68, 80.
- Belbathan, *Santal Parganas* (72 O/12; 25° 10' 30" : 87° 44' 30"), galena, assay. G. S. L., **A. R.**, 1897, 7.

- Beldaha, *Mirzapur* (63 P/2;  $24^{\circ} 35' : 83^{\circ} 0' 30''$ ), porcellanite beds, L. Vindhyan, R. D. O., **M**, XXXI, 165.
- Beldi (Baildih), *Manbhum* (73 J/5;  $22^{\circ} 56' : 86^{\circ} 18'$ ), silver lead ore. T. H. H., **R**, XXXIX, 253; L. L. F., **R**, LIII, 284.
- Beldi, *Nagpur* (55 O/6;  $21^{\circ} 35' : 79^{\circ} 27'$ ), manganese-ore, L. L. F., **R**, LXV, 102.
- Beldih, *Gangpur* (73 B/16;  $22^{\circ} 15' : 84^{\circ} 45'$ ), limestone. E. H. P., **R**, LXII, 57.
- Beldongri, *Nagpur* (55 O/7;  $21^{\circ} 20' 30'' : 79^{\circ} 18'$ ), vredenburgite. L. L. F., **M**, XXXVII, 42; sitaparite, 50; psilomelane, 112, 114; beldongrite, 115; rhodonite, 141; manganese-ore, 392, 904 (fig. & Pl. xxxvii).
- Belekatte, *Shimoga* (48 O/13;  $13^{\circ} 50' : 75^{\circ} 48'$ ), manganese-ore. L. L. F., **M**, XXXVII, 565 (fig.).
- Beleshwer, *Jaipur* (45 M/14;  $27^{\circ} 43' : 75^{\circ} 55'$ ), copper-ore. A. M. H., **R**, LIV, 385.
- Belgaum, *Bombay* (48 I/9;  $15^{\circ} 51' : 74^{\circ} 30'$ ), basalt. R. B. F., **M**, XII, 182; laterite, 213.
- Belgumba, *Hassan* (57 C/8;  $13^{\circ} 14' 30'' : 76^{\circ} 19'$ ), Dharwar outlier. R. B. F., **R**, XXII, 18.
- Belha-Piari, *Rewah* (64 I/4;  $23^{\circ} 9' : 82^{\circ} 0'$ ), coal seam. T. W. H. H., **R**, XIV, 316.
- Belkapi, *Hazaribagh* (72 H/12;  $24^{\circ} 10' : 85^{\circ} 39'$ ), hot springs, sulphurous. T. O., **M**, XIX, 139.
- Belkera, *Amraoti* (55 G/11;  $21^{\circ} 22' : 77^{\circ} 31' 30''$ ), Infra-trappean beds, section. W. T. B., **M**, VI, 282 (fig.).
- Bellaguppa, *Anantapur* (57 F/2;  $14^{\circ} 43' : 77^{\circ} 8'$ ), granite. R. B. F., **M**, XXV, 47.
- Bellamkonta, *Guntur* (65 D/2;  $16^{\circ} 30' 30'' : 80^{\circ} 1'$ ), inverted folding in Kurnool beds. W. K., **M**, VIII, 113 (fig.).
- Bellary, *Madras* (57 A/16;  $15^{\circ} 8' : 76^{\circ} 55'$ ), gneissose granite. R. B. F., **M**, XXV, 55; supposed glaciers in neighbourhood, 216; earthquake, 1843. F. M. B., **M**, XXXV, 163.
- Bellegunti, *Bijapur* (48 M/9;  $16^{\circ} 0' : 75^{\circ} 31'$ ), laterite, R. B. F., **M**, XII, 221.
- Bellibetta, *Mysore* (57 D/6;  $12^{\circ} 38' : 76^{\circ} 27'$ ), Dharwar outlier, gold. R. B. F., **R**, XXII, 20.
- Belligudda (Belgatta), *Chitaldrug* (57 B/7;  $14^{\circ} 19' : 76^{\circ} 27'$ ), copper-ore. R. B. F., **R**, XXI, 53.
- Belapat, *Sibi* (39 D/1;  $28^{\circ} 59' 30'' : 68^{\circ} 0' 30''$ ), Baluchistan earthquake, 1909. A. M. H., **R**, XLI, 28.
- Belma, *Singhbhum* (73 F/16;  $22^{\circ} 2' : 85^{\circ} 53'$ ), perknite. L. A. N., **R**, LXV, 527 (Pl. xxviii, fig. 4); analysis, 529.
- Belotra, *Jodhpur* (45 C/1;  $25^{\circ} 50' : 72^{\circ} 14' 30''$ ), diorite dykes. T. D. L., **A. R.**, 1898, 34=Balotra.
- Belowuddee, Belowaddi, *Belgaum* (48 I/14;  $15^{\circ} 43' : 74^{\circ} 55'$ ), alluvial gold. R. B. F., **R**, VII, 141; XXI, 44; **M**, XII, 53, 259.
- Belsini, *Chanda* (56 M/1;  $19^{\circ} 59' : 79^{\circ} 7'$ ), Vindhyan limestone. T. W. H. H., **M**, XIII, 14.
- Belugyun I., *Amherst* (94 H/11;  $16^{\circ} 24' : 97^{\circ} 30'$ ), tourmaline-cassiterite pegmatite. J. C. B., **M**, XLIV, 192.
- Beme, *Maque*, oilfield, see Yenangyaung.

- Benaid al Qar, *Persian Gulf* (3 O/15; 29° 21' : 47° 59'), petroleum. G. E. P., **M**, XXXIV, pt. 4, 148.
- Benaida, *Bijawar* (54 P/3; 24° 26' 30" : 79° 14'), Bijawar-granite boundary. H. B. M., **M**, II, 48.
- Benar, *Narsinghpur* (55 J/14; 22° 44' : 78° 51'), boring for coal. E. J. J., **M**, XXIV, 12-Baner.
- Benares, *United Provs.* (63 O/3; 25° 18' : 83° 0'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 65, 71; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 249; meteorite. J. C. B., **M**, XLIII, 168.
- Benbera Kushtia, *Ranchi* (73 F/13; 22° 53' : 85° 51' 30"), epidiorite. J. A. D., **M**, LIV, 89.
- Bendhar, *Punch* (43 G/9; 33° 49' 30" : 73° 42'), Murree-Siwalik boundary. D. N. W., **M**, LI, 331.
- Bendi, *Hazaribagh* (72 H/6; 24° 30' 30" : 85° 25'), mica mining. T. H. H., **M**, XXXIV, 45, 87.
- Bendia R., *Raigarh* (64 N/12; 22° 7' : 83° 33'), coal seam. V. B., **R**, IV, 106; VIII, 112.
- Beni Ghag, *Jashpur* (64 N/13; 22° 54' : 83° 57'), waterfall, C. S. F., **M**, XLIX, 161.
- Benkipur, *Shimoga* (48 O/9; 13° 50' 30" : 75° 42'), iron-works. H. H. H., **R**, LII, 126=Bhadravati.
- Bensibetta, *Coimbatore* (58 E/6; 11° 42' 30" : 77° 17'), gold mine. H. H. H., **M**, XXXIII, pt.-2, 55, 65 (fig.).
- Beola, *Simla* (53 E/4; 31° 3' : 77° 11'), talc-schist, Chail series. G. E. P., **M**, LIII, 89.
- Beor, *Rawalpindi* (43 G/10; 33° 35' : 73° 34'), Himalayan syntaxis. D. N. W., **M**, LI, 359.
- Ber Nana, *Cutch* (41 A/11; 23° 26' 30" : 68° 37'), *Nummulites*. W. L. F. N., **R**, LIX, 141.
- Bera Belma, *Singhbhum* (73 F/16; 22° 2' : 85° 53'), Newar dolerite. L. A. N., **R**, LXV, 522.
- Bera Duia, *Singhbhum* (73 F/6; 22° 30' : 85° 28'), dolerite. L. A. N., **R**, LXV, 527; analysis, 529.
- Bera Irge, *Ranchi* (73 F/1; 22° 45' : 85° 1' 30"), garnet in tourmaline-aplite. J. A. D., **M**, LIV, 130; tourmaline-aplite, analysis. L. A. N., **R**, LXV, 502.
- Bera Kasai, *Singhbhum* (73 F/2; 22° 32' 30" : 85° 14'), alluvial gold. J. A. D., **M**, LIV, 162.
- Bera Kenduda, *Singhbhum* (73 F/2; 22° 31' 30" : 85° 5' 30"), sericite-schists. J. A. D., **M**, LIV, 26.
- Berach R., *Mewar* (45 L/9; 24° 55' : 74° 38'), granite. E. H. P., **R**, LIX, 94.
- Beraja, *Cutch* (41 F/9; 22° 59' : 69° 36'), Tertiary beds, section. A. B. W., **M**, IX, 286.
- Berajpur, *Birbhum* (72 P/12; 24° 6' : 87° 41' 30"), iron-ore, assay. V. B., **M**, XIII, 248.
- Berali, *Kishtwar* (52 C/3; 33° 22' : 76° 13' 30"), arsenopyrite. T. D. L., **R**, XXIII, 68.
- Berembo (Bermo), *Hazaribagh* (73 E/13; 23° 47' : 85° 56'), coal seams, section. T. W. H. H., **M**, VI, 59.

- Bergurah, (Bargar) *Rewah* (63 L/10; 24° 34' : 82° 42'), 'Transition' limestone. F. R. M., **M**, VII, 34; R. D. O., **M**, XXXI, 163.
- Berhampore, *Murshidabad* (78 D/8; 24° 7' : 88° 15'), Cachar earthquake, 1869. T. O., **M**, XIX, 33; earthquake, 1897. E. V., **M**, XXIX, 311.
- Berinag, *Almora* (62 C/1; 29° 47' : 80° 3'), copper-ore. T. H. H., **R**, XXXV, 35.
- Berla, *Alwar* (54 A/12; 27° 14' 30" : 76° 33'), quartzite. C. A. H., **R**, X, 89.
- Berna, *Idar* (46 E/2; 23° 36' : 73° 1'), Idar granite. C. S. M., **M**, XLIV, 117, 123; Ahmednagar sandstone, 138, 144 (fig.).
- Bernardmyo, *Ruby Mines* (93 A/8; 23° 0' : 96° 27'), gem stones. L. L. F., **R**, XLVI, 199; sillimanite-granulite and peridotite. LXV, 84.
- Berod, *Jaipur* (54 B/13; 26° 51' : 76° 45' 30"), Ajabgarh slates. A. M. H., **R**, XLVIII, 195.
- Beroj (Bahroj), *Alwar* (54 A/10; 27° 44' : 76° 31'), amphibolite. A. M. H., **M**, XLV, 39.
- Berwa Okal, *Simla* (53 F/9; 30° 48' : 77° 32'), white marble bands, Jutogh series. L. L. F., **R**, LXV, 130.
- Besa, *Gujrat* (43 H/13; 32° 54' 30" : 73° 54'), U. Siwalik fossils. R. L., **R**, VIII, 49.
- Beshkalai, *Mewar* (45 K/14; 25° 39' : 74° 46'), meteoric iron. L. L. F., **R**, LV, 329 (Pl. xxxvii).
- Beshki, *Shahpura* (45 K/14; 25° 39' : 74° 49' 30"), meteoric iron. L. L. F., **R**, LV, 329 (Pl. xxxviii).
- Besram R., *Manbhum* (73 I/14; 23° 36' 30" : 86° 48'), coal seams. W. T. B., **M**, III, 121.
- Bet Mugnur, *Nander* (56 F/10; 18° 42' 30" : 77° 32'), calcified gneiss. K. H., **R**, XLIX, 220 (Pl. xx, fig. 3).
- Beta-pur-dina, *Andamans* (86 D/14; 12° 39' : 92° 56'), serpentine with chromite. E. R. G., **R**, LIX, 214.
- Beter Amda, *Mayurbhanj* (73 J/3; 22° 24' : 86° 11'), opal with asbestos and copper pyrites. P. N. B., **R**, XXXI, 172.
- Betran, *Punch* (43 G/10; 33° 43' 30" : 73° 44' 30"), anticline in Siwaliks. D. N. W., **M**, LI, 274.
- Betumcheru (Betamcherla), *Kurnool* (57 I/3; 15° 27' : 78° 9'), steatite. W. K., **R**, XXIV, 245; XXV, 2; augite-diorite, petrology. P. L., **R**, XXIII, 261; T. H. H., **R**, XXX, 36.
- Betumi, *Mewar* (45 K/4; 25° 3' : 74° 11'), copper and lead-ores. L. L. F., **R**, LXV, 55.
- Beur (Behwoor), *Bijapur* (47 P/16; 16° 12' 30" : 75° 54'), trap dyke. R. B. F., **M**, XII, 60.
- Bevihalli, *Sandur* (57 A/8; 15° 7' : 76° 30'), hematite. R. B. F., **M**, XXV, 101.
- Bevinhall, *Bellary* (57 A/16; 15° 8' 30" : 76° 59' 30"), trappoid beds. R. B. F., **M**, XXV, 151.
- Beyik, *Kashgar* (42 O/4; 37° 11' : 75° 15'), Pamir limestone, fossils. H. H. H., **R**, XLV, 302.
- Beynir hill, *Karachi* (35 O/11; 25° 29' : 67° 37'), Gaj series, *Ostrea*. E. V., **M**, L, 422.
- Beypore, *Malabar* (49 M/16; 11° 10' : 75° 48' 30"), iron works. T. H. H., **R**, XXXIX, 102; section of alluvium. P. L., **M**, XXIV, 233; lignite. R. R. S., **M**, XLI, 102.

- Bezwada, *Kistna* (65 D/10; 16° 31' : 80° 37'), gneiss. R. B. F., **M**, XVI, 25; W. K., **M**, XVI, 206; earthquake, 1897. R. D. O., **M**, XXIX, 35; time record, 67.
- Bhabar, *Chota Udaipur* (46 F/15; 22° 28' 30" : 73° 45'), recent conglomerate. G. V. H., **R**, LIX, 347.
- Bhabeh pass, *Bashahr* (53 I/2; 31° 43' : 78° 1'), Ordovician rocks. F. S., **M**, V, 17 (Pl. ii, fig. 1); H. H. H., **M**, XXXVI, 23=Babeh pass.
- Bhabra, *Ali-Rajpur* (46 J/6; 22° 31' 30" : 74° 19' 30"), granitoid gneiss. W. T. B., **M**, VI, 321.
- Bhachbar, *Jodhpur* (40 O/2; 25° 44' : 71° 0'), Eocene coast line. E. H. P., **M**, XL, 455.
- Bhadardi, *Idar* (46 E/2; 23° 44' : 73° 2'), Delhi quartzite. C. S. M., **M**, XLIV, 85.
- Bhaddoah, *Hazaribagh* (72 L/8; 24° 9' 30" : 86° 16'), coal seam. R. R. S., **M**, XLI, 41.
- Bhadigund (Bandigundi), *Shimoga*, (48 O/13; 13° 53' : 75° 50' 30"), manganesecore. L. L. F., **M**, XXXVII, 1148.
- Bhadora, *Jubbulpore* (64 A/9; 23° 49' 30" : 80° 32'), lateritic iron-ore. F. R. M., **R**, XVI, 106.
- Bhadrachalam, *Godavari* (65 C/14; 17° 40' : 80° 53'), coal exploration. W. T. B., **R**, IV, 59.
- Bhadras, *Jodhpur* (40 O/5; 25° 53' : 71° 18'), Barmer sandstones. T. D. L. **M**, XXXV, 77.
- Bhadravati, *Shimoga* (48 O/9; 13° 50' 30" : 75° 42'), iron-works. H. C. J., **R**, LVII, 159=Benkipur.
- Bhadresar, *Idar* (46 E/2; 23° 44' 30" : 73° 1' 30"), Idar granite. C. S. M., **M**, XLIV, 125.
- Bhaduai, *Surghuja* (64 I/16; 23° 1' : 82° 56' 30'), river piracy. L. L. F., **R**, XLIV, 238.
- Bhaduka, *Kathiawar* (41 N/6; 22° 34' : 71° 23'), Wadhwan limestone. F. F. **M**, XXI, 88.
- Bhaduya, *Singhbhum* (73 J/7; 22° 28' 30" : 86° 30'), kyanite. J. A. D., **M**, LII, 239.
- Bhag Sar, *Kashmir* (43 K/10; 33° 31' : 74° 35'), glacial lake. D. N. W., **M**, LI, 206.
- Bhagaband, *Manbhum* (73 I/6; 23° 44' : 86° 22' 30"), coal seam. T. W. H. H., **M**, V, 258.
- Bhagalatta R., *Hazaribagh* (73 E/9; 23° 49' : 85° 37'), Barakar stage, section. T. W. H. H., **M**, VI, 71.
- Bhagalpur, *Bihar* (72 K/16; 25° 15' : 86° 59'), earthquake, 1897. E. V., **M**, XXIX, 302 (figs.); Srimangal earthquake, 1918. M. S., **M**, XLVI, 26.
- Bhagalwada, *Raichur* (56 D/16; 16° 3' : 76° 53' 30"), trap dyke. R. B. F., **M**, XII, 60.
- Bhaganwala, *Jhelum* (43 H/2; 32° 43' : 73° 14'), Cambrian scarp. A. B. W., **M**, XIV, 137 (Pl. xiii); section, 138 (Pl. xiv); F. N., **R**, XXVII, 85; coal field. T. D. L., **R**, XXVII, 16 (Pls. i-iii); R. R. S., **M**, XLI, 109.
- Bhagara, *Surghuja* (64 M/3; 23° 22' : 83° 6'), coal seam. V. B., **R**, VI, 33,

- Bhaginahari, *Nagpur* (55 O/3 ; 21° 24' : 79° 8'), Archæan quartzites. L. L. F., **R**, LIV, 46.
- Bhagmundi, *Manbhumi* (73 I/4 ; 23° 12' : 86° 3'), gneissose granite. V. B., **M**, XVIII, 99.
- Bhagothoro, *Larkhana* (35 N/15 ; 26° 21' : 67° 52'), Nari beds. W. T. B., **M**, XVII, 50 ; fauna, 125 ; vertebrate fossils. G. E. P., **R**, XLVIII, 99 ; mollusca. E. V., **M**, L, 7, 11, 15, &c.
- Bhagsar, *Punch* (43 K/5 ; 33° 46' : 74° 16'), Eocene fossils. D. N. W., **M**, LI, 261, 304.
- Bhagur (Bhokar), *W. Khandesh* (46 L/13 ; 20° 55' 30" : 74° 45' 30"), meteorite. L. L. F., **R**, XXXV, 95 ; J. C. B., **M**, XLIII, 169.
- Bhagwal, *Jhelum* (43 C/12 ; 33° 4' 30" : 72° 36'), water-supply. L. L. F., **R**, LXV, 69.
- Bhagwanpura, *Mewar* (45 L/10 ; 24° 30' 30" : 74° 34' 30"), limestone, ? Aravalli. E. H. P., **R**, LIX, 96.
- Bhagwantgarh, *Jaipur* (54 B/4 ; 26° 8' : 76° 15'), Gwalior slates. A. M. H., **M**, XLV, 138 ; syncline in Vindhyan quartzite, 151 (fig.).
- Bhainsadari, *Korea* (64 I/3 ; 23° 23' 30" : 82° 2' 30"), coal seam. L. L. F., **M**, XLI, 220.
- Bhainsi Daman, *Nepal* (72 E/2 ; 27° 30' : 85° 3'), Krol limestone (?). H. B. M., **R**, VIII, 95.
- Bhainslana, *Jaipur* (54 A/2 ; 27° 39' : 76° 5' 30"), black marble. H. H. H., **R**, XLIV, 16 Raislana.
- Bhairampura, *Bundi* (45 O/10 ; 25° 31' : 75° 42' 30"), iron-ore. C. A. H., **R**, XIII, 248 ; L. Bhandar sandstone. A. L. C., **R**, LX, 178 ; Vindhyan boundary fault, 186, 187.
- Bhajiapani, *Chhindwara* (55 J/12 ; 22° 12' : 78° 42'), colliery. L. L. F., **R**, XLVI, 56 ; coal, analysis. G. V. H., **R**, LIX, 175.
- Bhakra, *Kangra* (53 A/7 ; 31° 25' : 76° 27'), dam-site. H. H. H., **R**, XLVIII, 13 ; E. H. P., **R**, LIX, 41 ; LXII, 49.
- Bhal, *Jhelum* (43 D/10 ; 32° 39' : 72° 34' 30"), Red Marl-Nummulitic, section. C. S. M., **R**, XXIV, 24 (Pl. i, fig. 3).
- Bhalag, *Sirmur* (53 F/5 ; 30° 46' 30" : 77° 19'), Chail series. G. E. P., **M**, LIII, 25.
- Bhalawag, *Simla* (53 F/1 ; 30° 59' 30" : 77° 13'), 'pitted' rock, Jutogh series. G. E. P., **M**, LIII, 24.
- Bhale (Bakli), *Chamba* (52 D/2 ; 32° 37' 30" : 76° 0' 30"), gneissose granite. C. A. M., **R**, XV, 44 ; petrology. XVIII, 80.
- Bhalmuri, *Rewah* (64 I/4 ; 23° 11' : 82° 6'), coal seam. T. W. H. H., **M**, XXI, 197, 238 ; R. R. S., **M**, XLI, 78.
- Bhalook, *Thanu* (47 E/7 ; 19° 19' : 73° 25'), volcanic cones. C. T. Clark, **R**, XIII, 71.
- Bhamar, *Indore* (55 B/11 ; 22° 21' 30" : 76° 39' 30"), manganese breccia. L. L. F., **M**, XXXVII, 677.
- Bhamasur hill, *Bhandara* (55 O/14 ; 21° 33' : 79° 45'), manganese-ore. L. L. F., **M**, XXXVII, 734, 755.
- Bhamauri (Bamori), *Naini Tal* (53 O/12 ; 29° 14' : 79° 31'), lignite. R. R. S., **M**, XLI, 114.

- Bhamo, *Burma* (92 H/3;  $24^{\circ} 15' : 97^{\circ} 14'$ ), earthquake, 1897. R. D. O., **M**, XXIX, 40; sounds, 193; Burma earthquake, 1912. J. C. B., **M**, XLII, 55; change in course of Irrawady. **R**, XLIII, 178 (Pl. xvii).
- Bhandak, *Chandu* (55 P/4;  $20^{\circ} 6' : 79^{\circ} 7'$ ), laterite. T. W. H. H., **M**, XLII, 91.
- Bhanda, *Chamba* (43 P/13;  $32^{\circ} 50' : 75^{\circ} 54'$ ), Blaini conglomerate. C. A. M., **R**, XVI, 37; igneous rocks. XVIII, 94.
- Bhandaoli, *Gwalior* (54 J/8;  $26^{\circ} 11' : 78^{\circ} 17'$ ), Morar series, section. C. A. H., **R**, III, 37.
- Bhandarbori, *Nagpur* (55 O/7;  $21^{\circ} 24' : 79^{\circ} 27'$ ), manganese-ore. L. L. F., **M**, XXXVII, 953.
- Bhauaria, *Chhindwara* (55 J/12;  $22^{\circ} 11' : 78^{\circ} 45'$ ), coal seam. W. T. B., **R**, XV, 130; E. J. J., **M**, XXIV, 29; R. R. S., **M**, XLI, 94.
- Bhandor, *Jhelum* (43 H/5;  $32^{\circ} 50' : 73^{\circ} 20'$ ), Siwalik fossils. W. T., **R**, XIV, 93; G. E. P., **R**, XLIII, 276.
- Bhangal R., *Sirmur* (53 F/9;  $30^{\circ} 46' : 77^{\circ} 39'$ ), Jaunsar series. G. E. P., **M**, LIII, 29, 42=Bangal R.
- Bhangarh, *Alwar* (54 A/8;  $27^{\circ} 5' 30'' : 76^{\circ} 18'$ ), copper and manganiferous iron-ores. C. A. H., **R**, X, 91; XIII, 247, 248; L. L. F., **M**, XXXVII, 1157; A. M. H., **M**, XLV, 119, 121.
- Bhangari, *Sirmur* (53 F/5;  $30^{\circ} 47' : 77^{\circ} 24' 30''$ ), olivine-dolerite. G. E. P., **M**, LIII, 56.
- Bhankari, *Jaipur* (54 B/5;  $26^{\circ} 57' 30'' : 76^{\circ} 24' 30''$ ), flagstone quarries. A. M. H., **R**, LIV, 358, 392.
- Bhankera, *Alwar* (54 A/10;  $27^{\circ} 32' : 76^{\circ} 36'$ ), barytes. Sri Kumar Roy, **R**, LIV, 238.
- Bhanni, *Rewah* (63 H/8;  $24^{\circ} 7' : 81^{\circ} 23'$ ), Bijawar diabase. E. V., **M**, XXXI, 73, 84.
- Bhansi (Basi), *Balaghat* (55 O/9;  $21^{\circ} 46' : 79^{\circ} 43' 30''$ ), manganese-ore. H. H. H., **R**, XLVII, 21.
- Bhantini, *Punch* (43 G/13;  $33^{\circ} 45' : 73^{\circ} 51'$ ), anticline in Siwaliks. D. N. W., **M**, LI, 274.
- Bhanuga, *Mewar* (45 L/6;  $24^{\circ} 32' : 74^{\circ} 30'$ ), Delhi quartzites. C. A. H., **R**, XIV, 294.
- Bhanur (Manvi), *Raichur* (57 E/1;  $15^{\circ} 59' : 77^{\circ} 3'$ ), trap dyke. R. B. F., **M**, XII, 63; quartz reef, 67.
- Bhanwera, *Kanker* (64 H/3;  $20^{\circ} 20' : 81^{\circ} 10'$ ), gneiss. P. N. B., **A. R.**, 1899, 37.
- Bhaori, *Garhwal* (53 J/8;  $30^{\circ} 5' : 78^{\circ} 25'$ ), hot springs. T. O., **M**, XIX, 119.
- Bhap Kund (Jhelam), *Garhwal* (53 N/14;  $30^{\circ} 38' : 79^{\circ} 49'$ ), hot spring. T. O., **M**, XIX, 124.
- Bharan, *Rajpipla* (46 G/2;  $21^{\circ} 30' 30'' : 73^{\circ} 2'$ ), fossil leaves, Tertiary. P. N. B., **R**, XXXVII, 175.
- Bharari, *Monghyr* (72 K/8;  $25^{\circ} 7' : 86^{\circ} 19'$ ), hot springs. T. O., **M**, XIX, 142.
- Bharatapuram, *Guntur* (56 P/12;  $16^{\circ} 3' : 79^{\circ} 41'$ ), talcose schists. R. B. F., **M**, XVI, 22.
- Bharatpur, *Rajputana* (54 E/8;  $27^{\circ} 13' : 77^{\circ} 30'$ ), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 235; Ajabgarh beds. A. M. H., **M**, XLV, 80=Bhartpur and Bhurtpur.

- Bharatpur, *Saraikeela* (73 J/2 ;  $22^{\circ} 43' : 86^{\circ} 5'$ ), kaolin. E. H. P., **R**, LVI, 30.
- Bharat-wada, *Nagpur* (55 O/4 ;  $21^{\circ} 14' : 79^{\circ} 1'$ ), *Næggerathia hislopi*. O. F., **R**, IX, 140.
- Bhariot, *Punch* (43 G/14 ;  $33^{\circ} 44' : 73^{\circ} 50' 30''$ ), Siwalik outlier. D. N. W., **M**, LI, 329.
- Bharkum, *Chhindwara* (55 K/14 ;  $21^{\circ} 39' : 78^{\circ} 53' 30''$ ), manganese-ore. L. L. F., **M**, XXXVII, 792—Bhurakam.
- Bharra, *Rewah* (63 L/7 ;  $24^{\circ} 23' : 82^{\circ} 15'$ ), barytes. R. D. O., **M**, XXXI, 131.
- Bhartpur, *Rajputana* (54 E/8 ;  $27^{\circ} 13' : 77^{\circ} 30'$ ), earthquake, 1897, sounds. R. D. O., **M**, XXIX, 193—Bharatpur and Bhutpur.
- Bharweli, *Balaghat* (64 C/1 ;  $21^{\circ} 49' : 80^{\circ} 11'$ ), manganese-ore. L. L. F., **M**, XXXVII, 718, 719.
- Bhasma, *Gangpur* (73 C/1 ;  $21^{\circ} 57' : 84^{\circ} 2'$ ), marble and calc-schist. L. L. F., **R**, LXV, 73.
- Bhasra, *Simla* (53 A/12 ;  $31^{\circ} 13' : 76^{\circ} 43'$ ), medicinal spring. T. O., **M**, XIX, 118.
- Bhatadon, *Jubbulpore* (64 A/3 ;  $23^{\circ} 28' : 80^{\circ} 8'$ ), manganese-ore. P. N. B., **R**, XXI, 84 ; L. L. F., **M**, XXXVII, 829.
- Bhatagaon, *Raipur* (64 G/12 ;  $21^{\circ} 13' : 81^{\circ} 37' 30''$ ), lignite. P. N. B., **R**, XVII, 130.
- Bhatara hill, *Chanda* (55 P/3 ;  $20^{\circ} 20' : 79^{\circ} 6'$ ), building stone. T. W. H. H., **M**, XIII, 115.
- Bhatea, *Punch* (43 G/10 ;  $33^{\circ} 44' 30'' : 73^{\circ} 37'$ ), Murree sandstone. D. N. W., **M**, LI, 271.
- Bhaterdaha, *Burdwan* (73 M/2 ;  $23^{\circ} 43' : 87^{\circ} 10'$ ), Ironstone shales. E. H. P., **R**, LXII, 138.
- Bhatgaon, *Raipur* (64 K/14 ;  $21^{\circ} 39' 30'' : 82^{\circ} 48'$ ), calcareous shales, analyses. G. S. L., **A. R.**, 1900, 8.
- Bhatin, *Singbhum* (73 J/6 ;  $22^{\circ} 40' : 86^{\circ} 20'$ ), kyanite. J. A. D., **M**, LII, 235.
- Bhatkot (Balakut), *Kashmir* (43 O/5 ;  $33^{\circ} 56' : 75^{\circ} 18'$ ), Panjal trap. R. L., **R**, XI, 44.
- Bhatkota, *Idar* (46 E/6 ;  $23^{\circ} 34' : 73^{\circ} 17'$ ), Deltu quartzite. C. S. M., **M**, XLIV, 91.
- Bhatkuwali, *Garhwal* (53 N/4 ;  $30^{\circ} 12' : 79^{\circ} 10'$ ), basic lava, petrology. C. S. M., **R**, XXI, 19.
- Bhatoria, *Chhindwara* (55 J/8 ;  $22^{\circ} 5' : 78^{\circ} 29' 30''$ ), Dharwarian rocks. C. S. M., **R**, XLV, 129.
- Bhattena, *Birbhum* (72 P/12 ;  $24^{\circ} 11' : 87^{\circ} 42' 30''$ ), iron-ore, assay. V. B., **M**, XIII, 248.
- Bhattian, *Rawalpindi* (43 G/9 ;  $33^{\circ} 45' 30'' : 73^{\circ} 30' 30''$ ), scarp, Kamliar sandstone. D. N. W., **M**, LI, 357.
- Bhaun, *Jhelum* (43 D/13 ;  $32^{\circ} 52' : 72^{\circ} 45' 30''$ ), syncline in Siwaliks. G. E. P., **R**, XLIII, 277.
- Bhaurikhera, *Dhar* (55 R/7 ;  $22^{\circ} 22' 30'' : 76^{\circ} 23'$ ), iron-ore. P. N. B., **M**, XXI, 66.
- Bhavani R., *Coimbatore* (58 E/3 ;  $11^{\circ} 29' : 77^{\circ} 10'$ ), dam-site. T. H. H., **A. R.**, 1900, 230.
- Bhavnagar, *Kathiawar* (46 C/1 ;  $21^{\circ} 47' : 72^{\circ} 9'$ ), laterite. F. F., **M**, XXI, 106



- Bhawi, *Jodhpur* (45 F/12; 26° 13' 30" : 73° 37'), basal conglomerate, Vindhyan. A. M. H., **R**, LXV, 478.
- Bhedoni, *Chhindwara* (55 K/14; 21° 36' : 78° 56'), pegmatite. E. H. P., **R**, LVIII, 55.
- Bheemgoda, *Dehra Dun* (53 K/1; 29° 59' : 78° 11'), fault. H. B. M., **M**, III, pt. 2, 123=Bhimgoda.
- Bheta, *Allahabad* (63 G/15; 25° 18' 30" : 85° 47' 30"), Kaimur beds, section. H. B. M., **M**, II, 8.
- Blackwili, *Salara* (47 G/9; 17° 55' : 73° 41' 30"), gibbsite. L. L. F., **R**, XXXIV, 170.
- Bhelaunda, *Surguja* (64 M/5; 23° 52' : 83° 16'), galena. L. L. F., **R**, I, 289.
- Bheldadi, *Dharwar* (48 M/11; 15° 20' : 75° 37'), hematite-quartzite, Dharwar. J. M. M., **R**, XXXIV, 101; hornblende-schist, 112.
- Bheng R., *Garhwal* (53 J/8; 30° 0' : 78° 19'), Nahan beds. R. D. O., **R**, XVII, 163.
- Bheowa (Rheowa) range, *Hazaribagh* (72 H/13; 24° 48' : 85° 49'), granite-quartzite contact. H. B. M., **R**, II, 42=Bhiaura range.
- Bhera Ghat, *Jubbulpore* (55 M/16; 23° 8' : 79° 48'), trap dykes. J. C. M., **M**, II, 218; fault-breccia, 245.
- Bhera R., *Hazaribagh* (73 E/10; 23° 37' : 85° 43'), Barakar stage, section. V. B., **M**, VI, 120.
- Bhere, *Jaipur* (54 B/12; 26° 7' 30" : 76° 36'), fault. A. M. II., **M**, XLV, 174.
- Bheria, *Surguja* (64 M/2; 23° 36' 30" : 83° 10'), *Naggarathiopsis hislopi*. O. F., **R**, XIII, 67.
- Bhetali, *Idar* (46 E/6; 23° 43' 30" : 73° 17' 30"), white pyroxene rock. C. S. M., **M**, XLIV, 72 (Pl. xii, fig. 3); Delhi quartzite, 92.
- Bhewgarh, *Nagpur* (55 O/3; 21° 29' : 79° 10'), Deccan trap outliers. P. N. D., **R**, XXXIII, 222.
- Bhiaramuria hill, *Jashpur* (64 N/9; 22° 55' : 83° 32'), bauxite. C. S. F., **M**, XLIX, 159.
- Bhiaura (Rheowa) range, *Hazaribagh* (72 H/13; 24° 48' : 85° 49'), metamorphic rocks, section. F. R. M., **R**, VII, 37=Bheowa range.
- Bhilar, *Salara* (47 G/13; 17° 54' 30" : 73° 46'), aluminous laterite. C. S. F., **M**, XLIX, 88.
- Bhilod, *Rajpipla* (46 G/2; 21° 36' : 73° 12' 30"), gypsum. P. N. B., **R**, XXXVII, 186.
- Bhiloda, *Idar* (46 E/5; 23° 46' : 73° 15'), Delhi quartzite. C. S. M., **M**, XLIV, 86.
- Bhilowa, *Gwalior* (54 J/8; 26° 3' : 78° 16' 30"), galena. T. D. L., **R**, XL, 113.
- Bhilra, *Sirohi* (45 D/6; 24° 31' 30" : 72° 25'), marble. E. H. P., **R**, LXI, 28.
- Bhim Tal, *Naini Tal* (53 O/11; 29° 21' : 79° 33'), lake. V. B., **R**, XI, 177; W. T., **R**, XIII, 165, 168; microgranulitic rocks. C. S. M., **R**, XXIII, 26; petrology, 32, 36.
- Bhimagandi, *Sandur* (57 A/12; 15° 6' : 76° 35'), gorge. R. B. F., **M**, XXV, 92; L. L. F., **M**, XXXVII, 996.
- Bhimasamudram, *Chitaldrug* (57 B/4; 14° 11' 30" : 76° 15"), hematite-quartzite with manganese-ore. L. L. F., **M**, XXXVII, 1121

- Bhimband, *Monghyr* (72 K/8; 25° 3' 30" : 86° 24'), hot spring. T. O., **M**, XIX 141.
- Bhimber, *Jammu* (43 L/1; 32° 58' : 74° 5'), Siwalik beds. W. T., **R**, XIV, 93.
- Bhimgarh, Bhimgud, *Belgaum* (48 1/6; 15° 35' : 74° 18'), manganese-ore. T. W. H. H., **R**, VII, 125; R. B. F., **M**, XII, 56, 259; L. L. F., **M**, XXXVII, 634; dolomite. R. B. F., **M**, XII, 55 (Pl. iii).
- Bhimgoda, *Dehra Dun* (53 K/1; 29° 59' : 78° 11'), Kangra earthquake, 1905, effect on 'bund'. C. S. M., **M**, XXXVIII, 116 (fig.)—Bheemgoda.
- Bhin, *Jhelum* (43 H/1; 32° 59' : 73° 1'), water-supply. L. L. F., **R**, LXV, 69.
- Bhinai, *Ajmer* (45 J/16; 26° 3' : 74° 46' 30'), gneiss. C. A. H., **R**, XIV, 285; mica. T. H. H., **M**, XXXIV, 70.
- Bhindar, *Mewar* (45 I/2; 24° 30' : 74° 11' 30"), Aravalli-gneiss unconformity. E. H. P., **R**, LXI, 130; LXIII, 144.
- Bhirakhul, *Nimar* (55 B/11; 22° 22' : 76° 38'), Bijawar limestone and breccia. W. T. B., **M**, VI, 251.
- Bhiwani, *Hissar* (53 D/1; 28° 47' : 76° 8'), boring for water. H. B. M., **R**, XIV, 235.
- Bhodan, *Surat* (46 G/3; 21° 17' : 73° 6'), Eocene fossils. A. B. W., **R**, I, 30 (note); section. W. T. B., **M**, VI, 369.
- Bhodli Pat, *Ranchi* (73 A/8; 23° 13' : 84° 19'), laterite. C. S. F., **M**, XLIX, 180.
- Bhogat, *Kathiawar* (41 G/1; 21° 59' 30" : 69° 14' 30"), Gaj fossils. F. F., **M**, XXI, 122.
- Bhojgarh, *Bundi* (45 O/7; 25° 21' 30" : 75° 24'), Vindhyan boundary fault. A. L. C., **R**, LX, 186; Datunda quartzite, 187 (Pl. xvi, fig. 2).
- Bhojiapur, *Balaghat* (55 O/13; 21° 49' : 79° 51' 30"), laterite on gneiss. R. C. B., **R**, XLVIII, 213.
- Bhojudih, *Manbhum* (73 1/6; 23° 38' : 86° 27'), boundary, Jharia coalfield. E. H. P., **R**, LXII, 143.
- Bholahra, *Renah* (63 H/8; 24° 4' : 81° 18'), Vindhyan outliers. R. D. O., **M**, XXXI, 116.
- Bholgati, *Magurbhany* (73 J/16; 22° 5' : 86° 50'), meteorite. L. L. F., **R**, XXXV, 83 (Pls. iv-viii); J. C. B., **M**, XLIII, 170.
- Bhonagir Drug, *Nalgonda* (56 K/14; 17° 31' : 78° 53'), diorite dyke. R. B. F., **R**, XVIII, 30.
- Bhond (Bhud), *Jammu* (43 P/14; 32° 37' : 75° 49'), Siwalik beds. C. A. M., **R**, XVI, 35; sandstones and clays, petrology, 186.
- Bhonda, *Singhbhum* (73 F/16; 22° 10' : 85° 50'), granite tors. L. A. N., **R**, LXV, 516; pegmatite and kaolin, 518.
- Bhooj, *Cutch* (41 E/11; 23° 15' 30" : 69° 40'), Jurassic beds and trap. A. B. W., **M**, IX, 167 (Pl. iii)=Bhuj.
- Bhoojooree (Bhujodi), *Cutch* (41 E/12; 23° 13' 30" : 69° 44'). Jurassic plants. A. B. W., **M**, IX, 160; O. F. **R**, IX, 32=Boojooree.
- Bhoolee R., *Manbhum* (73 1/5; 23° 48' 30" : 86° 22'), Talchir beds, section. T. W. H. H., **M**, V, 238.
- Bhopal, *Cent. India* (55 E/7; 23° 15' : 77° 24'), conglomerate bands in Vindhyan. J. G. M., **M**, II, 143; pre-trappean denudation of Vindhyan. W. T. B., **M**, VI, 240.

- Bhopalpatnam, *Bastar* (65 B/5 ;  $18^{\circ} 52'$  :  $80^{\circ} 23'$ ), gneiss. W. K., **M**, XVIII, 206.
- Bhopoli, *Surguja* (64 M/8 ;  $23^{\circ} 13'$  :  $83^{\circ} 16'$ ), Talchir beds. V. B., **R**, VI, 29.
- Bhor Ghat, *Kolaba* (47 P/5 ;  $18^{\circ} 46'$  :  $73^{\circ} 21'$ ), Deccan trap flows, thickness. W. T. B., **M**, VI, 144.
- Bhorla, *Nimar* (55 B/8 ;  $22^{\circ} 14' 30''$  :  $76^{\circ} 21'$ ), Cretaceous beds. W. T. B., **M**, VI, 266.
- Bhoswai, *Korea* (64 I/11 ;  $23^{\circ} 24'$  :  $82^{\circ} 34'$ ), coal seams. T. W. H., **M**, XXI, 201, 238.
- Bhotang, *Sikkim* (78 A/12 ;  $27^{\circ} 11'$  :  $88^{\circ} 31' 30''$ ), copper-ore. P. N. B., **R**, XXIV, 226 ; T. H. H., **R**, XXXIX, 238 ; H. H. H., **R**, XLII, 75.
- Bhot-kol pass, *Ladakh* (43 N/16 ;  $34^{\circ} 1'$  :  $75^{\circ} 49'$ ), Trias. R. L., **R**, XIV, 20 ; supra-Kuling beds. **M**, XXII, 149 ; granitoid gneiss, 297.
- Bhowanipur, *Panna* (63 I/2 ;  $24^{\circ} 43'$  :  $80^{\circ} 10'$ ), diamond workings. E. V., **R**, XXXIII, 295.
- Bhowra (Bhaunra), *Hazaribagh* (73 I/6 ;  $23^{\circ} 41'$  :  $86^{\circ} 24'$ ), coal seam. R. R. S., **M**, XLI, 53.
- Bhuda, *Alwar* (54 A/16 ;  $27^{\circ} 7'$  :  $76^{\circ} 49'$ ), Alwar quartzites. A. M. H., **M**, XLV, 46.
- Bhudargad, *Kolhapur* (47 I/3 ;  $16^{\circ} 17'$  :  $74^{\circ} 10'$ ), white clay. C. S. F., **M**, XLIX, 81.
- Bhuga (Buggalapalle), *Uddapah* (57 J/15 ;  $14^{\circ} 25'$  :  $78^{\circ} 49'$ ), hot spring. T. O., **M**, XIX, 148.
- Bhugcen, *Palamau* (73 A/14 ;  $23^{\circ} 43'$  :  $84^{\circ} 57'$ ), coal seams. A. J., **M**, LII, 62.
- Bhui Hurki, *Balaghat* (55 O/13 ;  $21^{\circ} 52'$  :  $79^{\circ} 59'$ ), spessartite. L. L. F., **M**, XXXVII, 173 ; manganese-ore, 713.
- Bhuj, *Cutch* (41 E/11 ;  $23^{\circ} 15' 30''$  :  $69^{\circ} 40'$ ), earthquake, 1819. R. D. O., **M**, XLVI, 108 ; aftershocks, 116, 117=Bhoj.
- Bhukbkuki, *Korea* (64 I/8 ;  $23^{\circ} 9'$  :  $82^{\circ} 22'$ ), dolerite dyke. L. L. F., **M**, XLI, 156 ; coal seam, 209.
- Bhukhanda, *Santal Parganas* (72 P/7 ;  $24^{\circ} 20' 30''$  :  $87^{\circ} 20' 30''$ ), kaolin. M. S., **R**, XXXVIII, 34.
- Bhukna, *Karauli* (54 B/11 ;  $26^{\circ} 17'$  :  $76^{\circ} 43'$ ), chert bands in Tirohan limestone. A. M. H., **M**, XLV, 156.
- Bhuladi, *Hazaribagh* (72 II/14 ;  $24^{\circ} 41'$  :  $85^{\circ} 47'$ ), lepidolite. F. R. M., **R**, VII, 43.
- Bhulanbarari, *Hazaribagh* (73 I/6 ;  $23^{\circ} 42'$  :  $86^{\circ} 26'$ ), coal. R. R. S., **M**, XLI, 52.
- Bhule Khan's Thana, *Karachi* (35 O/15 ;  $25^{\circ} 22'$  :  $67^{\circ} 50'$ ), Gaj beds. W. T. B., **M**, XVII, 159 ; celestine, 196.
- Bhulgora, *Santal Parganas* (72 P/5 ;  $24^{\circ} 57'$  :  $87^{\circ} 25'$ ), fire-clay. M. S., **R**, XXXVIII, 140.
- Bhumbhli, *Kathiawar* (46 U/2 ;  $21^{\circ} 40'$  :  $72^{\circ} 14'$ ), Gaj fossils. F. F., **M**, XXI, 109.
- Bhumian, *Bhandara* (55 O/10 ;  $21^{\circ} 39' 30''$  :  $79^{\circ} 39'$ ), manganese-ore. L. L. F., **M**, XXXVII, 460.
- Bhumka, *Santal Parganas* (72 P/8 ;  $24^{\circ} 2'$  :  $87^{\circ} 17'$ ), hot spring. L. L. F., **R**, LIII, 291=Tautlui.

- Bhumkot hill, *Hazara* (43 G/5 ;  $33^{\circ} 57' : 73^{\circ} 22'$ ), Kuldana beds, section. C. S. M., **M**, XXVI, 205 (Pl. iv, fig. 3).
- Bhundsai, *Gurgaon* (53 H/3 ;  $28^{\circ} 21' : 77^{\circ} 4'$ ), pegmatite. A. M. H., **M**, XLV, 36.
- Bhunju, *Hazara* (43 F/10 ;  $34^{\circ} 37' 30'' : 73^{\circ} 31' 30''$ ), Infra-Triassic beds. D. N. W., **R**, LXV, 208 ; chromite. E. H. P., **R**, LXIII, 31.
- Bhura, Rawalpindi (43 G/6 ;  $33^{\circ} 31' : 73^{\circ} 23' 30''$ ), Siwahk anticline. D. N. W., **M**, LI, 361.
- Bhurakam, *Chhindwara* (55 K/14 ;  $21^{\circ} 39' : 78^{\circ} 53' 30''$ ), manganese-ore. H. H. H., **R**, XLVII, 14 = Bharkum.
- Bhur-Karwan (Bud Karwar), *Bundi* (54 C/2 ;  $25^{\circ} 43' : 76^{\circ} 10'$ ), U. Vindhyan, section. A. L. C., **R**, LX, 181 (fig.).
- Bhurtpur, *Rajputana* (54 E/8 ;  $27^{\circ} 13' : 77^{\circ} 30'$ ), building stone. F. R. M., **M**, VII, 120 = Bharatpur and Bhartpur.
- Bhusawal, *E. Khandesh* (46 O/16 ;  $21^{\circ} 3' : 75^{\circ} 47'$ ), boring in Deccan trap. L. L. F., **R**, LVIII, 93 (Pls. iv-x).
- Bhuskee Joor, *Hazaribagh* (73 I/1 ;  $23^{\circ} 46' : 86^{\circ} 0' 30''$ ), coal seams. T. W. H. H., **M**, VI, 52.
- Bhutaria, *Chhindwara* (55 J/12 ;  $22^{\circ} 11' : 78^{\circ} 44'$ ), coal seam. W. T. B., **R**, XV, 131.
- Bhutavada, *Idar* (46 E/5 ;  $23^{\circ} 45' : 73^{\circ} 17'$ ), D-Ili quartzite. C. S. M., **M**, XLIV 93.
- Bhutra, *Narsinghpur* (55 I/16 ;  $23^{\circ} 2' : 78^{\circ} 46' 30''$ ), palaeolithic celt. H. B. M., **R**, VI, 49 (Pl. ii).
- Bhuwali, *Naini Tal* (53 O/11 ;  $29^{\circ} 23' : 79^{\circ} 31'$ ), microgranulitic rocks. C. S. M., **R**, XXIII, 27 ; petrology, 35.
- Bhuwan (Bhaun), *Garhwal* (53 J/8 ;  $30^{\circ} 4' : 78^{\circ} 20' 30''$ ), Eocene-Mandhali boundary. R. D. O., **R**, XVII, 162.
- Biafo glacier, *Ladakh* (43 M/N. E. ;  $35^{\circ} 55' : 75^{\circ} 45'$ ), movements of snout. K. M., **R**, LXIII, 254 (Pl. vii, 20).
- Biana (Bayana), *Bharatpur* (54 F/5 ;  $26^{\circ} 54' : 77^{\circ} 17'$ ), Quartzite series. F. R. M., **M**, VII, 24 ; Alwar conglomerates. C. A. H., **R**, XIV, 298 ; geology of hills. A. M. H., **R**, XLVIII, 181 (Pls. ix-xii) -Byana.
- Biaobum, *Singpho Hills* (92 A/16 ;  $27^{\circ} 12' : 96^{\circ} 52'$ ), Tertiary beds. T. D. L., **R**, XIX, 113.
- Bibbur, *Punch* (43 G/10 ;  $33^{\circ} 44' : 73^{\circ} 40'$ ), Siwalik anticline. D. N. W., **M**, LI, 369.
- Bibi Haiyat, *Persia* (24 R/11 ;  $30^{\circ} 29' 30'' : 56^{\circ} 38'$ ), Jurassic beds. C. E. P., **M**, XLVIII, pt. 2, 55.
- Bibi Nani, *Bolan Pass* (34 O/6 ;  $29^{\circ} 42' : 67^{\circ} 23'$ ), L. Nari beds. W. T. B., **M**, XX, 158, 173 (fig.).
- Bicha Buru, *Singhbhum* (73 F/2 ;  $22^{\circ} 37' : 85^{\circ} 12'$ ), iron-ore. J. A. D., **M**, LIV, 26, 163.
- Bichatola, *Korea* (64 I/3 ;  $23^{\circ} 23' 30'' : 82^{\circ} 2'$ ), coal seam. L. L. F., **M**, XLI, 193.
- Bichi R., *Mirzapur* (63 L/16 ;  $24^{\circ} 8' : 82^{\circ} 55'$ ), dolomite. F. R. M., **R**, V, 19.
- Bichia, *Rewah* (64 E/12 ;  $23^{\circ} 13' 30'' : 81^{\circ} 39' 30''$ ), coal seams. T. W. H. H., **R**, XIV, 316 ; **M**, XXI, 195, 238.

- Bichia R., *Rewah* (63 H/7;  $24^{\circ} 28'$  :  $81^{\circ} 24'$ ), Ganurgarh stage, section. F. R. M., **M**, VII, 82.
- Bichiadol, *Rewah* (63 L/4;  $24^{\circ} 11'$  :  $82^{\circ} 5'$ ), Gondwanas. R. D. O., **M**, XXXI, 133.
- Bichiakoh, *Nepal* (72 E/3;  $27^{\circ} 17' 30''$  :  $85^{\circ} 3'$ ), Siwalik beds. H. B. M., **R**, VIII, 94.
- Bichla, *Narsinghpur* (55 J/14;  $22^{\circ} 42'$  :  $78^{\circ} 50'$ ), boring site for coal. H. B. M., **M**, X, 187.
- Bicholim, *Goa* (48 E/14;  $15^{\circ} 35'$  :  $73^{\circ} 57'$ ), manganese-ore. L. L. F., **M**, XXXVII, 985.
- Bichua, *Chhindwara* (55 K/14;  $21^{\circ} 42'$  :  $78^{\circ} 52'$ ), rhodonite. L. L. F., **M**, XXXVII, 141; dannemorite ?, 147; gondite and spessartite-pegmatite, 789; **R**, XXXIII, 179, 212; garnet. LIX, 193.
- Bidar, *Hyderabad* (56 G/9;  $17^{\circ} 55'$  :  $77^{\circ} 32'$ ), manganese laterite. L. L. F., **M**, XXXVII, 989.
- Bidarbhavi, *Belgaum* (48 I/10;  $15^{\circ} 41'$  :  $74^{\circ} 35'$ ), laterite. R. B. F., **M**, XII, 220.
- Bidarhalli, *Dharwar* (48 M/16;  $15^{\circ} 0' 30''$  :  $75^{\circ} 47'$ ), hornblende-schists, Dharwar. J. M. M., **R**, XXXIV, 112.
- Biddanumcherla, *Cuddapah* (57 J/2;  $14^{\circ} 34' 30''$  :  $78^{\circ} 5'$ ), contours of Vainpalli limestone. W. K., **M**, VIII, 167 (fig.).
- Biddar, *Jhelum* (43 H/5;  $32^{\circ} 50'$  :  $73^{\circ} 27' 30''$ ), overfolding in Cambrian beds. L. L. F., **R**, LXV, 119.
- Biddiri, *Kharsawan* (73 F/9;  $22^{\circ} 48' 30''$  :  $85^{\circ} 42'$ ), biotite-phyllite. J. A. D., **M**, LIV, 44, 82.
- Bidna (Betne), *Belgaum* (48 I/6;  $15^{\circ} 41'$  :  $74^{\circ} 16'$ ), aluminous laterite. C. S. F., **M**, XLIX, 64.
- Bidoung hill, *Thayetmyo* (85 I/11;  $19^{\circ} 25'$  :  $94^{\circ} 38'$ ), serpentine. W. T., **R**, IV, 42; **M**, X, 332.
- Biffage, *Punch* (43 K/6;  $33^{\circ} 37'$  :  $74^{\circ} 21'$ ), Kiol beds. R. L., **R**, IX, 160—Balliaz.
- Bigrar, *Tehri* (53 J/1;  $30^{\circ} 52'$  :  $78^{\circ} 10' 30''$ ), slates and gneiss. C. S. M., **R**, XX, 30.
- Bihar, *Patna* (72 G/12;  $25^{\circ} 11'$  :  $85^{\circ} 31'$ ), earthquake, 1897. R. D. O., **M**, XXIX, 110, 327.
- Biharipur, *Jaipur* (45 M/13;  $27^{\circ} 54'$  :  $75^{\circ} 54'$ ), granite and felspar-porphry. A. M. H., **R**, LIV, 381.
- Biharipur, *Patiala* (54 A/1;  $27^{\circ} 55'$  :  $76^{\circ} 5'$ ), marble. P. N. B., **R**, XXXIII, 59.
- Bijapur, *Bombay* (47 P/9;  $16^{\circ} 50'$  :  $75^{\circ} 43'$ ), ash beds. R. B. F., **M**, XII, 183; basalt, 266.
- Bijatili hill, *Surguja* (64 N/5;  $22^{\circ} 56'$  :  $83^{\circ} 23'$ ), aluminous laterite. C. S. F., **M**, XLIX, 155.
- Bijawar, *Bundelkhand* (54 P/6;  $24^{\circ} 37'$  :  $79^{\circ} 30'$ ), Bijawar series. H. B. M., **M**, II, 35; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 253.
- Bijeraghogharh, *Jubbulpore* (64 A/9;  $23^{\circ} 59' 30''$  :  $80^{\circ} 36'$ ), L. Vindhyan limestone. F. R. M., **R**, XVI, 111; hot spring. T. O., **M**, XIX, 137; aluminous laterite. C. S. F., **M**, XLIX, 126—Bijragoogurh.

- Bijigurh (Bijaigarh), *Mirzapur* (63 P/2; 24° 34' 30" : 83° 11'), L. Kaimur shales. F. R. M., **M**, VII, 49.
- Bijkupi, *Torgal* (47 P/4; 16° 6' 30" : 75° 12'), building stone. H. C. J., **R**, LIV, 426.
- Bijjain (Bijayan), *Jubbulpore* (64 A/3; 23° 21' : 80° 11'), basal beds, Lameta series. C. A. Matley, **R**, LIII, 150.
- Bijka hill, *Palamanu* (64 M/13; 23° 46' 30" : 83° 54'), Mahadeva beds. V. B., **M**, XV, 106.
- Bijkomar, *Patna State* (64 P/6; 20° 40' : 83° 28'), rock crystal. V. B., **R**, X, 183; L. L. F., **R**, LIII, 266.
- Bijni, *Goulpara* (78 J/11; 26° 30' : 90° 43'), earthquake, 1897, aftershocks. R. D. O., **M**, XXIX, 127, 169; sand-vents, 261.
- Bijnor, *United Provs.* (53 K/3; 29° 22' : 78° 8'), Kangra earthquake, 1905. C. S. M., **M**, XXXVII, 199.
- Bijol, *Chota Udaipur* (46 F/15; 22° 23' : 73° 57' 30"), biotite-gneiss. G. V. H., **R**, LIX, 344, 351.
- Bijori, *Chhindwara* (55 J/7; 22° 22' : 78° 26'), Labyrinthodont skull. H. B. M., **M**, X, 159; **R**, L, **R**, XVI, 93.
- Bijori, *Jubbulpore* (64 A/5; 23° 48' : 80° 30'), lateritic iron ore. F. R. M., **R**, XVI, 104; L. L. F., **R**, L, 284.
- Bijragoogurh, *Jubbulpore* (64 A/9; 23° 59' 30" : 80° 36'), rippling in L. Vindhyan shales. F. R. M., **M**, VII, 38=Bijeraghogarh.
- Bijulpoor, *Nimar* (55 B/12; 22° 11' 30" : 76° 35'), Vindhyan boundary. W. T. B., **M**, VI, 266 (fig.).
- Bijura, *Gwalior* (54 J/8; 26° 1' : 78° 15' 30"), Morar series, section. C. A. H., **R**, III, 36.
- Bijwi Dochi, *Sirmur* (53 F/10; 30° 44' 30" : 77° 32'), Boileauganj beds. L. L. F., **R**, LXV, 129.
- Bikaner, *Rajputana* (44 H/8; 28° 1' : 73° 18'), well-sections. H. B. M., **R**, XIV, 230; Kangra earthquake, 1905. C. S. M., **M**, XXVIII, 232.
- Bikhampur, *Jaisalmer* (45 A/2; 27° 45' : 72° 9'), U. Gondwana sandstone. R. D. O., **R**, XXI, 32.
- Bikonhalli, *Shimoga* (48 N/12; 14' 2' : 75° 35'), polianite. L. L. F., **M**, XXXVII, 77; manganite, 85; manganese-ore, 1139.
- Bilanda, *Persia* (18 M/16; 27° 12' : 55° 58'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 95.
- Bilara, *Jodhpur* (45 F/12; 26° 11' : 73° 42' 30"), bituminous limestone, Vindhyan. L. L. F., **R**, XXXVI, 127 (fig.).
- Bilaspur, *Central Provs.* (64 J/4; 22° 5' : 82° 9'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 31.
- Bilaspur, *Punjab* (53 A/15; 31° 20' : 76° 45'), old moraine. W. T., **R**, VII, 96=Belaspur.
- Bileta, *Mewar* (45 O/6; 25° 35' : 75° 21'), Aravalli granite-gneiss. E. H. P., **R**, LX, 117.
- Bilgi, *Bijapur* (47 P/11; 16° 21' : 75° 37'), L. Kaladgi beds, section. R. B. F., **M**, XII, 83; porphyritic gneiss, 257.
- Bilheri, *Jubbulpore* (64 A/5; 23° 47' 30" : 80° 16'), Vindhyan boundary fault. F. R. M., **M**, VII, 72.

- Bilimora, *Baroda* (46 D/13; 20° 46' : 72° 58'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 67, 71.
- "Bill," The, *Karachi* (35 O/10; 25° 38' : 67° 31'), Nari-Gaj beds, section. W. T. B., **M**, XVII, 174 (Pl. vi, fig. 2).
- Billa Surgam, *Kurnool* (57 I/3; 15° 26' : 78° 11'), caves. R. B. F., **R**, XVII, 27, 200; XVIII, 227; mammalia. R. L., **R**, XIX, 120.
- Billari, *Almora* (53 O/9; 29° 46' : 79° 44'), slates. T. W. H. H., **R**, XI, 183.
- Billora, *Nimar* (55 B/4; 22° 14' : 76° 5'), Vindhyan unconformity. P. N. B., **M**, XXI, 15.
- Bilot, *D. I. Khan* (38 P/3; 32° 15' 30" : 71° 9' 30"), Productus Limestone, fossils. A. B. W., **M**, XVII, 277, 296.
- Bilthari, *Narsinghpur* (55 I/16; 23° 3' : 78° 51'), Elephant (*Stegodon*) tusk in Narbada alluvium. W. T., **M**, II, 290; R. L., **R**, X, 31.
- Bilwada, *Mirzapur* (63 L/16; 24° 11' 30" : 82° 53' 30"), limestone, analysis. F. R. M., **R**, VI, 42.
- Bimlipatam, *Vizagapatam* (65 O/5; 17° 53' : 83° 27'), lateritised gneiss. W. K., **R**, XIX, 146; manganese-ore, 155; analysis. L. L. F., **M**, XXXVII, 1042; monazite. C. H. T., **R**, XLIV, 195.
- Bimphedi, *Nepal* (72 E/2; 27° 33' : 85° 8'), quartzites. H. B. M., **R**, VIII, 95.
- Bimpur, *Adilabad* (56 M/11; 19° 16' 30" : 79° 32' 30"), Kota limestone. W. K., **R**, X, 62.
- Binalgadh, *Dehra Dun* (53 F/13; 30° 49' : 77° 49'), volcanic focus. R. D. O., **R**, XVI, 194.
- Bin-Byai, *Toungoo* (94 B/14; 18° 33' : 96° 55'), hot spring. T. O., **M**, XIX, 151.
- Binda, *Palamau* (64 M/14; 23° 44' : 83° 53'), Barakar stage, section. V. B., **M**, XV, 104; coal seam. R. R. S., **M**, XLI, 59.
- Bindar (Zinda) Pir, *D. G. Khan* (39 J/7; 30° 24' 30" : 70° 29'), hot spring. T. O., **M**, XIX, 115.
- Bindrabun (Brindaban), *Santal Parganas* (72 O/12; 25° 1' : 87° 43'), Rajmahal plants. O. F., **R**, IX, 39; XIV, 150-152 (Pls. iii, iv).
- Binj, *Singbblum* (73 F/14; 22° 41' 30" : 85° 47' 30"), alluvial gold. V. B., **M**, XVIII, 128.
- Binja, *Ranchi* (73 E/2; 23° 40' : 85° 13'), Ironstone shales. A. J., **M**, LII, 127.
- Binka, *Sonpur* (64 O/16; 21° 2' : 83° 49'), schistose quartzite. V. B., **R**, X, 182.
- Binota, *Tonk* (45 L/10; 24° 32' : 74° 34'), junction of Delhi series and L. Vindhyan. C. A. H., **R**, XIV, 291; L. Vindhyan limestone. H. H. H., **R**, XLIV, 29; shales. E. H. P., **R**, LIX, 96.
- Biphuma (Viphoma), *Naga Hills* (83 K/1; 25° 50' : 94° 0' 30"), 'loop-fault'. H. H. H., **R**, XL, 293.
- Biradavole, *Nellore* (57 N/15; 14° 20' : 79° 46'), garnet. L. L. F., **R**, LIX, 192.
- Biraon, *Garkwal* (53 J/15; 30° 16' : 78° 58'), epidiorite, petrology. C. S. M., **R**, XXI, 15.
- Biravallipaya, *Guntur* (56 P/15; 16° 26' : 79° 59' 30"), Cuddapah quartzites. R. B. F., **M**, XVI, 48.
- Birbanki, *Ranchi* (73 F/9; 22° 53' : 85° 31'), actinolite-schist. J. A. D., **M**, LIV, 60; garnet-schist, 69; silicified epidiorite, 83.
- Birbira, *Gangpur* (73 B/4; 22° 4' : 84° 13'), manganese-ore. L. L. F., **R**, XLI, 13, 18.

- Birda, *Singhbhum* (73 F/5;  $22^{\circ} 47' 30''$  :  $85^{\circ} 18'$ ), faulting in epidiorite. J. A. D., **M**, LIV, 22, 79, 87; laterite, 143.
- Birds-Nest (Marble) ls., *Mergui* (96 I/6;  $11^{\circ} 33'$  :  $98^{\circ} 19'$ ), caverns. A. Carpenter, **R**, XXI, 29.
- Birhuli, *Rewah* (64 E/11;  $23^{\circ} 16' 30''$  :  $81^{\circ} 35'$ ), coal seam. T. W. H. H., **M**, XXI, 184.
- Birinti, *Persia* (25 E/3;  $27^{\circ} 17'$  :  $57^{\circ} 14' 30''$ ), hippuritic limestone. G. E. P., **M**, XLVIII, pt. 2, 64; Zindan series (Eocene) 74; Bakhtiyari series, 102.
- Birjpur, *Panna* (63 I/5;  $24^{\circ} 49'$  :  $80^{\circ} 26'$ ), diamond workings. E. V., **R**, XXXIII, 286 = Bridjepoor.
- Birkah Sifah, *Persian Gulf* (18 N/1;  $26^{\circ} 46'$  :  $55^{\circ} 14'$ ), Fars series. G. E. P., **M**, XXXIV, pt. 4, 24, 108 (fig.).
- Birkot, *Hazara* (43 I/6;  $34^{\circ} 35' 30''$  :  $73^{\circ} 23'$ ), Eocene-Murree boundary. D. N. W., **R**, LXV, 214.
- Birman (Barmhan) Ghat, *Narsinghpur* (55 M/4;  $23^{\circ} 2'$  :  $79^{\circ} 1'$ ), shell beds. W. T., **M**, II, 284; copper-ore. V. B., **R**, VII, 62.
- Birnibera, *Ranchi* (73 F/1;  $22^{\circ} 46'$  :  $85^{\circ} 1'$ ), mica-schist inclusions in granite. J. A. D., **M**, LIV, 124; porphyritic granite. L. A. N., **R**, LXV, 499.
- Birond (Bahron), *Naini Tal* (53 O/11;  $29^{\circ} 15'$  :  $79^{\circ} 43'$ ), geodetic station. R. D. O., **M**, XLII, 190, 247.
- Birabi hill, *Bellary* (48 N/13;  $14^{\circ} 55'$  :  $75^{\circ} 48'$ ), crystalline limestone. R. B. F., **M**, XXV, 83, 204.
- Biru, *Kashmir* (43 J/12;  $34^{\circ} 1'$  :  $74^{\circ} 35' 30''$ ), Triassic limestone. R. L., **R**, XIV, 27.
- Biru, *Manbhum* (73 I/14;  $23^{\circ} 32' 30''$  :  $86^{\circ} 45' 30''$ ), 'dome' gneiss. V. B., **M**, XVIII, 97.
- Birunda, *Hazaribagh* (73 E/1;  $23^{\circ} 56'$  :  $85^{\circ} 1'$ ), Karharbari stage. A. J., **M**, LII, 19.
- Bisanattam, *Kolar* (57 L/5;  $12^{\circ} 50' 30''$  :  $78^{\circ} 15'$ ), autoclastic conglomerate, Dharwar. E. H. P., **R**, LIX, 91.
- Bisanpur (Ramghat) R., *Palamau* (73 A/13;  $23^{\circ} 46'$  :  $84^{\circ} 52'$ ), coal seam, section. T. W. H. H., **M**, VII, 309.
- Bisapur Kalan, *Chhindwara* (55 K/13;  $21^{\circ} 55'$  :  $78^{\circ} 57'$ ), Deccan trap flow. L. L. F., **R**, XLVII, 92.
- Bisari, *Punch* (43 G/14;  $33^{\circ} 42' 30''$  :  $73^{\circ} 52'$ ), syncline, L. Siwalik. D. N. W., **M**, LI, 275.
- Bishangarh, *Jaipur* (45 M/15;  $27^{\circ} 19'$  :  $75^{\circ} 54'$ ), granite. A. M. H., **R**, LIV, 379.
- Bishanpur, *Ranchi* (73 F/1;  $22^{\circ} 58' 30''$  :  $85^{\circ} 13'$ ), epidotised granite. L. A. N., **R**, LXV, 499.
- Bishenpoor, *Bankura* (73 M/8;  $23^{\circ} 4'$  :  $87^{\circ} 19'$ ), laterite. W. T. B., **M**, I, 268.
- Bishnath, *Tezpur* (83 F/2;  $26^{\circ} 40'$  :  $93^{\circ} 10'$ ), older alluvium. H. B. M., **M**, IV, 438.
- Bishneh, *Persia* (17 K/15;  $29^{\circ} 22' 30''$  :  $54^{\circ} 50'$ ), schists and quartzites. G. E. P., **M**, XLVIII, pt. 2, 6.
- Bishunpur, *Mirzapur* (63 L/13;  $24^{\circ} 51'$  :  $82^{\circ} 54' 30''$ ), meteorite. J. C. B., **M**, XLIII, 171.



- Bisil, *Ladakh* (43 M/5;  $35^{\circ} 52' 30''$  :  $75^{\circ} 24'$ ), hot spring. R. L., **R**, XIV, 54; **M**, XXII, 43; T. O., **M**, XIX, 124.
- Biskra (Bishka), *Mymensingh* (78 L/9;  $24^{\circ} 45' 30''$  :  $90^{\circ} 31' 30''$ ), Srimangal earthquake, 1918, M. S., **M**, XLVI, 24.
- Bisnal, *Bijapur* (47 P/7;  $16^{\circ} 23' 30''$  :  $75^{\circ} 29' 30''$ ), L. Kaladgi beds, section. R. B. F., **M**, XII, 84.
- Bisra, *Gangpur* (73 B/16;  $22^{\circ} 15'$  :  $85^{\circ} 0'$ ), limestone. J. M. M., **R**, XXXI, 73; L. L. F., **R**, LIII, 254.
- Bisramgunge Ghat, *Panna* (63 D/2;  $24^{\circ} 44'$  :  $80^{\circ} 1'$ ), Semri series. H. B. M., **M**, II, 19; pebbles from—, in Panna diamond bed, 71.
- Bisrampur, *Surguja* (64 M/4;  $23^{\circ} 7'$  :  $83^{\circ} 12'$ ), coalfield. V. B., **R**, VI, 25 (Pl. i); R. R. S., **M**, XLI, 81.
- Bissarbuti, *Darjeeling* (78 B/5;  $26^{\circ} 49'$  :  $88^{\circ} 19'$ ), Damuda plants. F. R. M., **M**, XI, 16.
- Bissi (Bhisi), *Chanda* (55 P/6;  $20^{\circ} 37' 30''$  :  $79^{\circ} 24'$ ), iron-ore. T. W. H. H., **R**, VI, 78; P. N. D., **R**, XXXVIII, 311.
- Bistampur, *Singbhum* (73 F/15;  $22^{\circ} 26' 30''$  :  $85^{\circ} 47'$ ), manganese-ore. L. L. F., **M**, XXXVII, 629.
- Bist-o-Char, *Persia* (25 A/6;  $27^{\circ} 35'$  :  $56^{\circ} 15'$ ), Fars series. G. E. P., **M**, XLVIII, pt. 2, 108.
- Bisundni, *Mervara* (45 O/2;  $25^{\circ} 44'$  :  $75^{\circ} 9' 30''$ ), mica. E. H. P., **R**, LX, 48.
- Biwan, *Gurgaon* (54 E/1;  $27^{\circ} 45'$  :  $77^{\circ} 3'$ ), folding in Ajabgarh beds. A. M. H., **M**, XLV, 79 (fig.).
- Bizd hill (Kuh-i-Bizak), *Persia* (29 A/8;  $35^{\circ} 11'$  :  $60^{\circ} 20'$ ), igneous rocks and Red Grit series. C. L. G., **R**, XIX, 61.
- Blini (Blaini) R., *Sinla* (53 E/4;  $31^{\circ} 0'$  :  $77^{\circ} 2'$ ) Blaini series. H. B. M., **M**, III, pt. 2, 31.
- Bobaneshwar, *Puri* (73 H/16;  $20^{\circ} 14' 30''$  :  $85^{\circ} 49'$ ), Athgarh sandstones. V. B., **R**, X, 67.
- Bobara, *Punch* (43 G/14;  $33^{\circ} 36' 30''$  :  $73^{\circ} 47'$ ), main boundary fault, termination. D. N. W., **M**, LI, 192, 271.
- Bobbili, *Vizagapatam* (65 N/6;  $18^{\circ} 34'$  :  $83^{\circ} 22'$ ), micaceous gneiss. W. K., **R**, XIX, 152; manganese-ore. L. L. F., **M**, XXXVII, 1044.
- Bodaberna, *Angul* (73 C/16;  $21^{\circ} 8'$  :  $84^{\circ} 56'$ ), fault. W. T. B., **M**, I, 68.
- Budagram (Badogam), *Kashmir* (43 N/2;  $34^{\circ} 33'$  :  $75^{\circ} 3' 30''$ ), Panjal trap. R. L., **R**, XII, 21.
- Bodara, *Vizagapatam* (65 N/4;  $18^{\circ} 10'$  :  $83^{\circ} 8'$ ), garnetiferous gneiss. W. K., **R**, XIX, 152.
- Bodavanipalli, *Kurnool* (57 I/2;  $15^{\circ} 39' 30''$  :  $78^{\circ} 2'$ ), hot spring. T. O., **M**, XIX, 147.
- Boddam, *Vizagapatam* (65 N/11;  $18^{\circ} 24'$  :  $83^{\circ} 38'$ ), manganese-ore. L. L. F., **M**, XXXVII, 462-3, 1048.
- Bodh Bandh, *Santal Parganas* (72 L/16;  $24^{\circ} 0'$  :  $86^{\circ} 51'$ ), copper-ore. L. L. F., **R**, LIII, 264.
- Bodi, *Idar* (46 E/2;  $23^{\circ} 32' 30''$  :  $73^{\circ} 10' 30''$ ), Aravalli rocks. C. S. M., **M**, XLIV, 62 (fig.); dolerite dyke, 133 (Pl. xvi, fig. 4); Ahmednagar sandstone, 138; mica, 150.

- Bodraghat, *Balaghat* (64 B/12; 22° 8' : 80° 43' 30"), manganese-ore. L. L. F., **M**, XXXVII, 732.
- Boga Pani (Umiew R.), *Khasi Hills* (78 O/11; 25° 18' : 91° 38'), contortions in quartzites. T. O., **M**, I, 124 (fig.).
- Bogalakonda, *Guntur* (57 M/13; 15° 59' : 79° 58'), gneissose granite. R. B. F., **M**, XVI, 37.
- Bogarmang (Bhugarmang), *Hazara* (43 F/6; 34° 35' : 73° 15'), Mesozoic rocks (?). A. B. W., **R**, XII, 123.
- Boghin R., *Baraunda* (63 D/5; 24° 51' : 80° 29'), Semri series. H. B. M., **M**, II, 20; diamond workings, 74.
- Bogra, *Bengal* (78 H/5; 24° 51' : 89° 23'), Cachar earthquake, 1869. T. O., **M**, XIX, 32; earthquake, 1897, fissures, &c. R. D. O., **M**, XXIX, 321.
- Bogribari, *Goalpara* (78 J/4; 26° 12' : 90° 9'), earthquake, 1897. R. D. O., **M**, XXIX, 19.
- Bohr hill, *Bolan Pass* (34 O/5; 29° 50' 30" : 67° 22'), coal seam. R. R. S., **M**, XLI, 34.
- Boidelpur, *Khurjar* (64 L/12; 20° 7' : 82° 31'), Vindhyan shales. V. B., **R**, X, 176.
- Boila, *Cachar* (83 G/3; 25° 23' : 93° 11'), travertine. F. H. S., **M**, XXVIII, 73.
- Boileaugunge, *Simla* (53 E/4; 31° 6' : 77° 9'), quartzites. H. B. M., **M**, pt. 2, 34; G. E. P., **M**, LIII, 106.
- Boimpur, *Talcher* (73 G/4; 21° 6' : 85° 1'), section of Damudas. W. T. B., **M**, I, 63.
- Boirani, *Ganjam* (74 A/14; 19° 35' : 84° 45' 30"), manganese-garnet. L. L. F., **M**, XXXVII, 165, 168; kodurite, 214, 255-61, 265 (Pl. viii, fig. 2); manganese-ore, 1034.
- Boj Mt., *Simla* (53 F/1; 30° 55' : 77° 3'), section, Himalayan series. H. B. M., **M**, III, pt. 2, 23 (fig.); junction of Subathu with Krol beds, 83.
- Bok, *Tavoy* (95 K/6; 13° 34' : 98° 23'), porphyry dykes. J. C. B., **M**, XLIV, 190.
- Bokahi, *Rewah* (64 E/12; 23° 13' : 81° 37'), coal seam. R. R. S., **M**, XLI, 78 = Bakahi.
- Bokaro R., *Hazaribagh* (73 E/13; 23° 47' : 85° 57'), coalfield. T. W. H. H., **M**, VI, 39 (Pl. iii); R. R. S., **M**, XLI, 55.
- Bokhar, *Idar* (46 E/2; 23° 37' : 73° 8' 30"), mica-schist. C. S. M., **M**, XLIV, 90.
- Bokhara, *Nagpur* (55 O/4; 21° 13' 30" : 79° 4'), Talchir beds. W. T. B., **M**, IX, 303; Kamthi beds, 308.
- Bokpyin, *Mergui* (96 I/15; 11° 16' : 98° 46'), tin-ore. T. W. H. H., **R**, XXII, 189; T. H. H., **R**, XXXVII, 40; E. H. P., **R**, LIII, 19; wolfram *in situ*. L. L. F., **M**, XXXVII, 209.
- Boktola, *Sikkim* (78 A/3; 27° 28' : 88° 6' 30"), micaceous gneiss. P. N. B., **R**, XXIV, 221.
- Bokula Ghat, *Nowgong* (83 F/4; 26° 3' : 93° 12'), gneiss. F. H. S., **M**, XXVIII, 77.
- Bolangir, *Patna State* (64 P/6; 20° 43' : 83° 29' 30"), limestone. V. B., **R**, X, 183.
- Bolani, *Keonjhar* (73 F/8; 22° 5' : 85° 20'), iron-ore. E. H. P., **R**, LIII, 17.

- Bolconda, *Salem* (57 L/2; 12° 37' : 78° 7'), augite-norite dykes. T. H. H., **R**, XXX, 28.
- Bolintaung, *Tavoy* (95 J/7; 14° 16' : 98° 15' 30"), wolfram. J. C. B., **R**, L, 109; **M**, XLIV, 275.
- Boliwala, *Attock* (43 C/10; 33° 45' : 72° 30'), 'erratics.' W. T., **R**, XIII, 232.
- Bolkheri, *Chhindwara* (55 J/12; 22° 15' : 78° 34' 30"), Motur plants. E. J. J., **M**, XXIV, 49.
- Bolpada, *Athgarh* (73 H/10; 20° 30' : 85° 41'), boring site for coal. V. B., **R**, X, 68.
- Bolundra, *Idar* (46 E/6; 23° 35' : 73° 18'), white pyroxene-rock. C. S. M., **M**, XLIV, 68.
- Bomanhal (Bamanhalli), *Raichur* (56 D/15; 16° 20' : 76° 45' 30"), Dharwar schist band. R. B. F., **R**, XXII, 36.
- Bombay (47 B/13; 18° 58' : 72° 50'), geology. A. B. W., **M**, V, 173 (Pls. i-iii); frog beds. VI, 385 (Pl. ix); Cutch earthquake, 1819. R. D. O., **M**, XLVI, 114.
- Bombay (Colaba Observatory) (18° 55' : 72° 49'), earthquakes: Assam, 1897, magnetograph record. R. D. O., **M**, XXIX, 38, 61, 180, 241, (Pl. xl); Burma, 1912, seismogram. J. C. B., **M**, XLII, 86 (Pls. ix & xi); Srimangal, 1918, seismogram. M. S., **M**, XLVI, 35 (Pl. vi, fig. 2).
- Bom-lung-ta, *Andamans* (86 D/14; 12° 31' : 92° 52' 30"), coal seam. E. R. G., **R**, LIX, 212.
- Bommayapaleiyam, *S. Arcot* (58 M/13; 11° 59' 30" : 79° 51'), Cuddalore sandstones. H. F. B., **M**, IV, 175.
- Bondapilli, *Vizagapatam* (65 N/11; 18° 22' : 83° 36'), manganese-ore. L. L. F., **M**, XXXVII, 434, 509, 1101.
- Bondaung (? Pyabondaung), *L. Chindwin* (84 J/11; 22° 18' : 94° 33'), oil seepage. E. H. P., **M**, XL, 145=Bondoung.
- Bondesor, *Kalahandi* (65 M/1; 19° 54' : 83° 10'), diamonds. T. L. W., **M**, XXXIII, pt. 3, 21; L. L. F., **R**, LIII, 265—Bandesor.
- Bondo, *Hazaribagh* (73 E/6; 23° 40' : 85° 24'), limestone. A. J., **M**, LII, 144.
- Bondoung, *L. Chindwin* (84 J/11; 22° 18' : 94° 33'), oil seepage. F. N., **M**, XXVII, 183=Bondaung.
- Bondranec, *Bhandara* (55 O/14; 21° 33' : 79° 59'), garnetiferous augite-norite, charnockite series. K. H., **R**, LV, 256. (Pl. xxxii, fig. 1).
- Bonet, *Amherst* (94 H/11; 16° 25' : 97° 34'), hot spring. T. O., **M**, XIX, 152.
- Bonga Buru, *Singhbhum* (73 F/10; 22° 36' : 85° 44'), brecciated dolerite. J. A. D., **M**, LIV, 138.
- Bongdhar, *Garhwal* (53 O/1; 29° 55' : 79° 5'), junction of gneiss and slates. R. D. O., **R**, XVI, 162.
- Bongha (Bangram), *Burdwan* (73 I/14; 23° 39' : 86° 55' 30"), trap dyke. W. T. B., **M**, III, 143 (fig.).
- Bonnington, *Andamans* (86 D/13; 12° 55' : 92° 55'), ashy sandstones. E. R. G., **R**, LIX, 213.
- Bonthia (Botia), *Jodhpur* (40 O/5; 25° 58' : 71° 21'), Barmer sandstones. T. D. L., **M**, XXXV, 77.
- Boochadeeh, *Hazaribagh* (73 E/2; 23° 41' : 85° 9' 30"), Barakar stage, sections. A. J., **M**, LII, 88, 122.

- Boojoorsee, *Cutch* (41 E/12; 23° 13' 30" : 69° 44'), Jurassic beds, section. A. B. W., **M**, IX, 185=Bhoojooree.
- Bookroo, *Hazaribagh* (73 A/13; 23° 59' : 84° 58'), Talchirs. A. J., **M**, LII, 8 (Pl. i).
- Boondi, *Rajputana* (45 O/11; 25° 27' : 75° 38'), Vindhyan boundary. H. B. M., **R**, I, 71=Bundi.
- Bora, *Santal Parganas* (72 O/8; 25° 2' : 87° 22' 30"), coal seam. V. B., **M**, XLII, 195; R. R. S., **M**, XLI, 39; fire-clay. M. S., **R**, XXXVIII, 140.
- Borabil, *Keonjhar* (73 F/8; 22° 7' : 85° 24'), iron-ore. E. H. P., **R**, LIII, 17.
- Borachuck, *Burdwan* (73 I/14; 23° 42' 30" : 86° 55' 30"), coal seam. R. R. S., **M**, XLI, 45=Barachak.
- Boraghat R., *Rairakhol* (73 I/7; 21° 17' : 84° 27'), Talchir series. V. B., **R**, X, 172.
- Borasjun, *Persia* (10 O/3; 29° 16' : 51° 13'), Pleistocene conglomerate. G. E. P., **M**, XXXIV, pt. 4, 62.
- Borda, *Nagpur* (55 O/7; 21° 27' : 79° 16' 30"), manganese-ore. L. L. F., **M**, XXXVII, 895.
- Borda (Baroudia), *Mewar* (45 I/9; 24° 58' : 74° 35'), Delhi quartzites, junction with gneiss. C. A. H., **R**, XIV, 295.
- Bordhai, *Betul* (55 J/8; 22° 0' 30" : 78° 21'), Dharwar epidiorites. H. H. H., **R**, XLIII, 36.
- Bordongri, *Balaghat* (55 O/14; 21° 42' : 79° 45' 30"), manganese-ore. L. L. F., **M**, XXXVII, 700, 702.
- Bordwar, *Kamrup* (78 O/5; 25° 55' : 91° 28'), earthquake, 1897, aftershocks. R. D. O., **M**, XXIX, 124; rock fracture, 148, 334; F. M. B., **M**, XXXV, 171.
- Boreguth (Bhawargarh), *Balaghat* (55 O/14; 21° 34' : 79° 56'), garnetiferous augite-norite, charnockite series. K. H., **R**, LV, 256.
- Borgaon, *Bhandara* (55 O/12; 21° 3' : 79° 42'), fault. E. H. P., **R**, LXII, 133.
- Borgaon, *Chhindwara* (55 K/14; 21° 34' : 78° 49'), Lameta conglomerate. L. L. F., **R**, LIV, 44.
- Borgarh, *Banda* (63 G/8; 25° 9' : 81° 21'), glass-making sand. H. H. H., **R**, LII, 294.
- Borhat, *Sibsagar* (83 M/8; 27° 8' : 95° 22'), coal seams. R. R. S., **R**, XXXIV, 231.
- Borholi (Bhareli) R., *Aka Hills* (83 A/12; 27° 10' : 92° 42'), Damuda coal. T. D. L., **R**, XVIII, 123; R. R. S., **M**, XII, 15.
- Bori, *Betul* (55 G/14; 21° 44' : 77° 49'), meteorite. J. C. B., **M**, XLIII, 173.
- Bori, *Hoshangabad* (55 J/7; 22° 27' : 78° 16'), carbonaceous shale. J. C. M., **M**, II, 269; Deccan trap dyke. L. L. F., **R**, LXV, 98.
- Borjuli, *Darrang* (83 B/9; 26° 49' : 92° 40'), earthquake, 1897, rotation of pillars. R. D. O., **M**, XXIX, 211; Srimangal earthquake, 1918. M. S., **M**, XLVI, 27.
- Borkela, *Singbhum* (73 F/10; 22° 33' 30" : 85° 41' 30"), gabbroid dolerite. J. A. D., **M**, LIV, 137.
- Borkhandi, *Bundi* (45 O/11; 25° 28' 30" : 75° 36'), L. Bhandar sandstone. A. L. C., **R**, LX, 178.
- Borkhol, *Sambalpur* (64 O/9; 21° 45' : 83° 43' 30"), boundary fault, Rampur coalfield. V. B., **R**, VIII, 106.

- Borkunda, *Chota Udaipur* (46 F/14 ; 22° 32' 30" : 73° 46'), 'kankar'. G. V. H., **R**, LIX, 355.
- Borla, *Kuwardha* (64 F/4 ; 22° 10' : 81° 13' 30"), Chilpi Ghat beds. W. K., **R**, XVIII, 187.
- Borla, *Khairagarh* (64 C/15 ; 21° 21' 30" : 80° 47'), iron-ore. P. N. B., **R**, XX, 168.
- Bornala, *Idar* (46 E/5 ; 23° 45' : 73° 21' 30"), Phyllite series. C. S. M., **M**, XLIV, 112.
- Borodhemo (Bara Dhemo), *Burdwan* (73 I/14 ; 23° 42' : 86° 54' 30"), coal seam. R. R. S., **M**, XLI, 45.
- Borojan, *Sibsagar* (83 F/12 ; 26° 15' : 93° 45'), limestone and warm spring. F. H. S., **M**, XXVIII, 82 ; limestone. C. S. M., **R**, XLV, 115.
- Borpeta, *Kamrup* (78 N/3 ; 26° 19' : 91° 1'), earthquake, 1897, aftershocks. R. D. O., **M**, XXIX, 127, 169 ; floods, 267, 336.
- Borra, *Vizagapatam* (65 N/3 ; 18° 16' : 83° 1'), cave. W. K., **R**, XIX, 154.
- Borrea (Barira), *Burdwan* (73 I/13 ; 23° 45' 30" : 86° 52'), coal seam. R. R. S., **M**, XLI, 44.
- Borsora (Barsaura), *Khasi Hills* (78 O/4 ; 25° 12' : 91° 11'), coal seam. T. D. L., **R**, XVI, 164 ; XVII, 145 ; R. R. S., **M**, XLI, 28.
- Boruarchali (Baruasali), *Sibsagar* (83 M/8 ; 27° 7' 30" : 95° 16'), coal seams. F. R. M., **M**, XII, 324 ; R. R. S., **M**, XLI, 19.
- Borpurio, *Bundi* (45 O/14 ; 25° 35' : 75° 59'), limestone in Jhiri shales. A. L. C., **R**, LX, 171.
- Bosher, *Oman* (26 I/6 ; 23° 33' : 58° 22'), sand hills. G. E. P., **M**, XXXIV, pt. 4, 95.
- Bostan, *Bulandshahr* (53 H/10 ; 28° 31' : 77° 31'), geodetic station. R. D. O., **M**, XLII, 219, 245.
- Bostan, *Quetta-Pishin* (34 N/3 ; 30° 25' : 67° 1'), artesian well. R. D. O., **R**, XXV, 47, 53.
- Bostanah (E.), *Persian Gulf* (25 A/4 ; 27° 5' 30" : 56° 1'), Hormuz-Fars series. G. E. P., **M**, XLVIII, pt. 2, 29 (fig.).
- Bostanah (W), *Persian Gulf* (18 J/10 ; 26° 31' : 54° 39'), rhyolite with sulphur. G. E. P., **M**, XXXIV, pt. 4, 17, 104, 155 ; Hormuz-Fars series, 111 ; XLVIII, pt. 2, 43.
- Botad, *Kathiawar* (41 N/12 ; 22° 10' : 71° 40'), boring for water. E. H. P., **R**, LIX, 61 ; LX, 56.
- Botajheri, *Balaghat* (55 O/13 ; 21° 49' : 79° 56'), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Botha, *Satara* (47 K/5 ; 17° 46' 30" : 74° 23'), hot spring. T. O., **M**, XIX, 149.
- Bouk, *Tehri* (53 J/1 ; 30° 45' : 78° 14'), granitic rock, petrology. C. S. M., **R**, XX, 31=Bahak.
- Bouridand, *Koreu* (64 I/4 ; 23° 13' 30" : 82° 11'), dolerite dyke. L. L. F., **M**, XLI, 157.
- Bowun, *Kashmir* (43 O/1 ; 33° 45' 30" : 75° 13'), springs. R. L., **R**, XI, 42=Bawan.
- Bowarla, *Nisarpur* (46 N/3 ; 22° 18' 30" : 75° 11'), Cretaceous beds. P. N. B., **M**, XXI, 36, 42.
- Bowerghur hill, *Betul* (55 F/16 ; 22° 12' : 77° 51'), Talchir beds faulted against crystalline rocks. J. G. M., **M**, II, 151 (fig.).

- Bowerghur hill, *Jubbulpore* (55 M/16;  $23^{\circ} 4' : 79^{\circ} 46' 30''$ ), fault between Lameta beds and schists. J. G. M., **M**, II, 236 (fig.).
- Bowla (Bahula), *Burdwan* (73 M/2;  $23^{\circ} 39' 30'' : 87^{\circ} 11' 30''$ ), coal seam. R. R. S., **M**, XLI, 46.
- Bozha Banda, *Kohat* (38 O/7;  $33^{\circ} 18' 30'' : 71^{\circ} 22'$ ), Tertiary beds, section. A. B. W., **M**, XI, 235 (Pl. vi, fig. 30).
- Brahmagundam, *Kurnool* (57 E/14;  $15^{\circ} 33' : 77^{\circ} 58'$ ), hot spring. T. O., **M**, XIX, 147.
- Brahmakund, *Lakhimpur* (92 A/5;  $27^{\circ} 52' : 96^{\circ} 22'$ ), gold. Dalton and Hannay, **M**, I, 90; metamorphic rocks. J. M. M., **R**, XXXI, 182.
- Brahmanapalle, *Cuddapah* (57 J/3;  $14^{\circ} 25' : 78^{\circ} 12' 30''$ ), asbestos. L. L. F., **R**, LXV, 34.
- Brahmanbaria, *Tippera* (79 M/1;  $23^{\circ} 58' : 91^{\circ} 7'$ ), Srimangal earthquake, 1918. M. S., **M**, XLVI, 20.
- Brahmini R., *Santal Parganas* (72 P/7;  $24^{\circ} 17' : 87^{\circ} 27'$ ), coalfield. V. B., **M**, XIII, 182 (Pl. vii); R. R. S., **M**, XLI, 38.
- Brahmundecha (Bamandih), *Manbhum* (73 I/5;  $23^{\circ} 46' 30'' : 86^{\circ} 15'$ ), coal seam. T. W. H. H., **M**, V, 291.
- Brai R., *Kashmir* (43 J/5;  $34^{\circ} 52' : 74^{\circ} 23'$ ), augen-gneiss. R. L., **M**, XXII, 307.
- Braklu R., *Ladakh* (43 M/N. E.;  $35^{\circ} 42' : 75^{\circ} 30'$ ), glaciation. R. L., **R**, XIV, 46; Tertiary beds (?). **M**, XXII, 116; supra-kuling beds, 191.
- Bren, *Kashmir* (43 J/16;  $34^{\circ} 6' 30'' : 74^{\circ} 53'$ ), fossils, Agglomerate Slate series. E. H. P., **R**, LXI, 20; LXIII, 21.
- Bridjepoor, *Panna* (63 D/5;  $24^{\circ} 49' : 80^{\circ} 26'$ ), diamond mines. H. B. M., **M**, II, 69 — Birjpur.
- Broach, *Bombay* (46 C/14;  $21^{\circ} 41' : 72^{\circ} 58'$ ), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 113; aftershocks, 116; water supply. H. H. H., **R**, XLI, 77.
- Brunj, *Zhob* (39 E/10;  $31^{\circ} 30' 30'' : 69^{\circ} 31'$ ), dam-site. E. H. P., **R**, LXIII, 71.
- Bu Musa I., *Persian Gulf* (18 O/1;  $25^{\circ} 53' : 55^{\circ} 2'$ ), geology. G. E. P., **M**, XXXIV, pt. 4, 137 (fig.); ochre, 157; gypsum, 159.
- Bubhor, *Hoshiarpur* (53 A/7;  $31^{\circ} 24' : 76^{\circ} 22'$ ), Siwalik conglomerate. H. B. M., **M**, III, pt. 2, 140; high-level gravels. **R**, IX, 56 — Babhor.
- Buchao, *Cutch* (41 I/7;  $23^{\circ} 18' : 70^{\circ} 21'$ ), iron-ore. A. B. W., **M**, IX, 87; Jurassic beds, section, 136; earthquake, 1819. R. D. O., **M**, XLVI, 108; bauxite. C. S. F., **M**, XLIX, 99.
- Buchara, *Jaipur* (45 M/14;  $27^{\circ} 33' : 75^{\circ} 58' 30''$ ), kaolin. C. A. H., **R**, XIII, 249; A. M. H., **R**, LIV, 391; **M**, XLV, 124; Ajabgarh quartzite and pegmatite. **R**, LIV, 369; **M**, XLV, 88.
- Buchiredipalem, *Nellore* (57 N/14;  $14^{\circ} 33' : 79^{\circ} 53'$ ), building stone. W. K., **M**, XVI, 134, 158.
- Buchnai, *Chhindwara* (55 K/13;  $21^{\circ} 56' : 78^{\circ} 52' 30''$ ), Deccan trap flow. L. L. F., **R**, XLVII, 92.
- Buchra, *Hazaribagh* (73 E/2;  $23^{\circ} 41' : 85^{\circ} 5'$ ), Talchirs, section. A. J., **M**, LII, 17.
- Buda Buru, *Singhbhum* (73 F/7;  $22^{\circ} 16' 30'' : 85^{\circ} 16'$ ), iron-ore. T. H. H., **R**, XXXIX, 105; H. C. J., **R**, LIV, 204.
- Budal, *Jaipur* (54 C/5;  $25^{\circ} 56' : 76^{\circ} 25' 30''$ ), fault. A. M. H., **M**, XLV, 131, 159, 172.

- Budalas, *Nagir* (42 L/7 ; 36° 17' : 74° 20'), Calcareous series. H. H. H., **R**, XLV, 297.
- Budalur, *Tanjore* (58 J/13 ; 10° 47' : 78° 59'), Cretaceous marine beds. E. V., **R**, XL, 337 = Buttalur.
- Budatand, *Surguja* (64 M/6 ; 23° 41' : 83° 17'), *Glossopteris*. O. F., **R**, XIII, 68.
- Budavada, *Guntur* (66 A/1 ; 15° 51' 30" : 80° 8' 30"), U. Gondwana beds, section. R. B. F., **R**, XI, 255 ; **M**, XVI, 68 (fig.) : travertine, 99.
- Budbuda, *Balaghat* (55 O/13 ; 21° 47' 30" : 79° 58'), palaeolith of manganese-ore. L. L. F., **M**, XXXVII, 713.
- Buddamatti peak, *Shinoga* (48 O/13 ; 13° 57' : 75° 51'), manganese-ore. L. L. F., **M**, XXXVII, 1146.
- Budepata, *Ranchi* (73 F/9 ; 22° 53' 30" : 85° 36'), contorted quartzites. J. A. D., **M**, LIV, 26.
- Budge Budge, *24-Parganas* (79 B/3 ; 22° 29' : 88° 11'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 60.
- Budhan, *Jammu* (43 G/15 ; 33° 24' : 73° 50'), possible oilfield. C. S. M., **R**, XLIX, 191 (Pls. xiii-xvi) ; E. H. P., **M**, XL, 441.
- Budho, *Rawalpindi* (43 G/1 ; 33° 48' : 73° 9'), Nummulitic-Murree section. D. N. W., **M**, LI, 352.
- Budi, *Chhindwara* (55 J/14 ; 22° 36' 30" : 78° 45'), boring site for coal. H. B. M., **M**, X, 187 ; hot spring. T. O., **M**, XIX, 136.
- Budikanama Ghat, *Bellary* (57 A/12 ; 15° 11' : 76° 43'), Dharwar beds, section. R. B. F., **M**, XXV, 135.
- Budimai, *Hoshangabad* (55 F/11 ; 22° 22' : 77° 32'), Mahadeva boundary. H. B. M., **R**, VIII, 70.
- Budlee (Bhadli), *Cutch* (41 E/7 ; 23° 19' : 69° 25'), sandstone altered by trap. A. B. W., **M**, IX, 205.
- Budnur, *Belgaum* (48 I/13 ; 15° 53' : 74° 51'), Dharwar inlier. R. B. F., **R**, XXI, 43.
- Budokur, *Shahabad* (72° D/1 ; 24° 50' : 84° 2'), L. Vindhyan limestone. F. R. M., **M**, VII, 41.
- Budra, *Chamba* (52 D/6 ; 32° 33' : 76° 29'), gorge. C. A. M., **R**, XVIII, 88.
- Budra R., *Bilaspur* (64 I/4 ; 23° 1' : 82° 10'), Talehir limestone. L. L. F., **M** XLI, 167, 170.
- Budraj hill, *Dehra Dun* (53 F/15 ; 30° 29' : 77° 57'), Krol slates. H. B. M., **M**, III, pt. 2, 66.
- Budsur (Barsur), *Kangra* (53 A/6 ; 31° 31' 30" : 76° 27'), fault. H. B. M., **M**, III, pt. 2, 142.
- Buga, *Warangal* (65 C/9 ; 17° 55' : 80° 43' 30"), hot spring. T. O., **M**, XIX, 145 = Bangah.
- Bugdige (Bagdigi) R., *Manbhum* (73 I/5 ; 23° 46' 30" : 86° 17'), Barakar beds, section. T. W. H. H., **M**, V, 279 ; coal seams, thickness and quality, 328.
- Bugnotur, *Hazara* (43 F/8 ; 34° 7' 30" : 73° 20'), Triassic fossils. C. S. M., **M**, XXVI, 29, 170 = Bagnotur.
- Bugrar, *Chamba* (43 P/14 ; 32° 33' : 75° 55'), Krol series. H. B. M., **M**, III, pt. 2, 65.
- Bugti Dera, *Sibi* (39 G/4 ; 29° 2' : 69° 9'), Eocene beds. W. T. B., **M**, XX, 155 ; L. Siwalik fossils, 162 ; sulphurous spring, 208 = Dera Bugti.

- Buheratongree, *Ranchi* (73 A/14; 23° 40' 30" : 84° 59' 30"), coal seams. A. J., **M**, LII, 66.
- Buhute, *Singbhum* (73 F/10; 22° 34' : 85° 44'), slates. J. A. D., **M**, LIV, 158.
- Bukkapuram, *Kurnool* (57 I/11; 15° 28' 30" : 78° 34'), hot springs. T. O., **M**, XIX, 148.
- Bukkur, *Mianwali* (39 M/2; 31° 37' : 71° 4'), hot spring. T. O., **M**, XIX, 115.
- Bulbul (Balbal), *Palamau* (73 A/14; 23° 44' 30" : 84° 51' 30") Barakar—Raniganj boundary. A. J., **M**, LII, 67.
- Bulbul hill, *Ranchi* (73 A/6; 23° 38' : 84° 26'), laterite. C. S. F., **M**, XLIX, 166.
- Buldur, *Spiti* (53 E/13; 31° 50' : 77° 50'), Silurian syncline. C. L. G., **R**, XXII, 160 = Balair and Baldar.
- Bule, *Thayetmyo* (85 M/8; 19° 15' : 95° 16'), hot spring. T. O., **M**, XIX, 150 = Kwonboalay.
- Bulgaon (Walgaon), *Amraoti* (55 G/12; 21° 1' : 77° 42'), lateritic conglomerate. A. B. W., **R**, II, 4.
- Bulin-sunin-tau, *Kashgar* (42 I/16; 39° 15' : 74° 52'), metamorphic rocks. H. H. H., **R**, XLV, 318.
- Bullawalla, *Saharanpur* (53 F/16; 30° 7' : 77° 59'), geodetic station. R. D. O., **M**, XLII, 237.
- Bulwaree, *Anjhera* (46 J/15; 22° 24' : 74° 58'), calcareous red rock, ? Cretaceous. W. T. B., **M**, VI, 298.
- Bunas R., *Jaipur* (54 B/12; 26° 0' : 76° 40'), Quartzite series. F. R. M., **M**, VII, 24.
- Bunbehal (Bunbalul), *Burdwan* (73 M/2; 23° 40' 30" : 87° 13'), coal seam. R. R. S., **M**, XLI, 46.
- Bundalla, *Warangal* (65 B/8; 18° 6' : 80° 16'), coalfield. W. K., **M**, XVIII, 184; springs, 264.
- Bundi, *Rajputana* (45 O/11; 25° 26' : 75° 38'), Vindhyan boundary fault. C. A. H., **R**, XIV, 289; U. Vindhyan, section. A. L. C., **R**, LX, 172 (fig.) = Boondi.
- Buni, *Chitral* (42 D/7; 36° 10' : 72° 16'), Devonian beds. H. H. H., **R**, XLV, 289; E. H. P., **R**, LVI, 44.
- Buni Khet, *Punch* (43 K/6; 33° 37' 30" : 74° 22'), lava flows, Dogra slates. D. N. W., **M**, LI, 230, 310, 313.
- Buniyar, *Kashmir* (43 J/4; 34° 8' : 74° 11'), gabbro and dolerite. L. L. F., **R**, LXV, 124.
- Bunjeera Doongur (Bhanjada Bet), *Cutch* (41 I/1; 23° 57' : 70° 8'), trachyte. A. B. W., **M**, IX, 107.
- Bunkheri, *Hoshangabad* (55 J/9; 22° 46' : 78° 32'), boring for coal. R. R. S., **M**, XLI, 92.
- Burkuta, *Nimar* (55 B/11; 22° 15' 30" : 76° 44'), manganese-ore. L. L. F., **M**, XXXVII, 367, 988.
- Bunnara, *Khairagarh* (64 C/15; 21° 18' 30" : 80° 46'), basaltic rocks, Chilpi Ghat series. P. N. B., **R**, XXI, 59.
- Bunwar, *Gwalior* (54 J/4; 26° 2' : 78° 4'), Vindhyan-granite boundary. H. B. M., **M**, II, 62.
- Bura, *Attock* (43 C/5; 33° 46' : 72° 25'), 'erratics'. G. C., **R**, LXI, 331 (Pl. xxvi).



- Burapalle, *Guntur* (57 M/14; 15° 41' : 79° 59'), magnetite beds. R. B. F., **M**, XVI, 20.
- Burar hill, *Chhindwara* (55 K/14; 21° 43' : 78° 52' 30"), silicified pegmatite. L. L. F., **R**, XXXIII, 174 (Pl. xiv, fig. 2).
- Burari, *Santal Parganas* (72 P/5; 24° 57' : 87° 26'), fire-clay. M. S., **R**, XXXVIII, 140.
- Burawai, *Hazara* (43 F/13; 34° 56' 30" : 73° 52'), dolerite dykes. D. N. W., **R**, LXV, 200.
- Burburra, *Kohat* (38 O/3; 33° 16' 30" : 71° 8'), Tertiary beds, sections. A. B. W., **M**, XI, 222 (Pl. v, figs. 25, 26); rock-salt. H. W., **M**, XI, 319.
- Burdhee, *Rewah* (63 L/6; 24° 33' : 82° 22'), porcellanic beds, L. Vindhyan. F. R. M., **M**, VII, 37; concretions in shales, 40 — Bardi.
- Burdwan, *Bengal* (73 M/16; 23° 14' : 87° 51'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 223 — Bardwan.
- Burgaon, *Hazaribagh* (73 A/13; 23° 46' 30" : 84° 56' 30"), Raniganj plants. O. F., **R**, XIV, 248.
- Burgo, *Santal Parganas* (72 P/6; 24° 30' 30" : 87° 24'), Barakar beds, section. V. B., **M**, XIII, 187; Dubrajpur beds, 204 — Bargo.
- Burha hill, *Jashpur* (64 N/9; 22° 48' : 83° 44'), bauxite. C. S. F., **M**, XLIX, 159.
- Burhait (Berhait), *Santal Parganas* (72 P/9; 24° 53' : 87° 36'), palagonite. C. S. M., **R**, XXII, 234; agate and amethyst. L. L. F., **R**, LIII, 265.
- Burhanpur, *Nimar* (55 C/3; 21° 19' : 76° 14'), earthquake, 1897. R. D. O., **M**, XXIX, 51; water-supply. E. H. P., **R**, LXII, 88.
- Burhaparbat, *Gangpur* (73 B/3; 22° 27' : 84° 5'), granite. L. L. F., **R**, LXV, 73.
- Burhi, *Hazaribagh* (72 H/7; 24° 18' : 85° 25'), inlier of Mahabar schists. H. B. M., **R**, II, 45.
- Buri, *Persian Gulf* (11 J/8; 26° 10' : 50° 30'), Eocene limestone. G. E. P., **M**, XXXIV, pt. 4, 119.
- Buri Khel, *Mianwali* (38 P/10; 32° 42' 30" : 71° 45'), alteration of dolomite to gypsum. C. S. M., **R**, XXIV, 29; position of Red Marl, 35.
- Buri Mai, *Chhindwara* (55 J/7; 22° 18' 30" : 78° 23'), fault, Bijori stage. L. L. F., **R**, LXV, 100.
- Buriadi, *Hazaribagh* (72 L/8; 24° 9' 30" : 86° 19'), Talchir plants. O. F., **R**, X, 137.
- Burigutu, *Kharsawan* (73 F/13; 22° 46' : 85° 52' 30"), epidiorite dyke. J. A. D., **M**, LIV, 135.
- Burimai hill, *Chhindwara* (55 J/7; 22° 18' 30" : 78° 23'), Mahadeva scarp. J. G. M., **M**, II, 185 (fig.).
- Burimal, *Sambalpur* (73 C/2; 21° 39' 30" : 84° 7'), Talchir limestone. V. B., **R**, VIII, 105.
- Burio, *Santal Parganas* (72 O/12; 25° 1' 30" : 87° 35' 30"), Rajmahal plants. O. F., **R**, IX, 39.
- Burjavalaa, *Vizagapatam* (65 N/7; 18° 26' : 83° 20' 30"), rhodonite. L. L. F., **M**, XXXVII, 141, 1113.
- Burj-i-Gul Jan, *Afghanistan* (38 F/4; 35° 4' : 69° 4'), graphite. C. L. G., **R**, XX, 23; Hajigak series. H. H. H., **M**, XXXIX, 48.

- Burjo, *Alwar* (54 A/8 ; 27° 8' : 76° 18'), Alwar quartzite. A. M. H., **M**, XLV, 50 ; gorge, 51.
- Burkot, *Hazara* (43 F/4 ; 34° 10' 30" : 73° 4'), steatite. C. S. M., **M**, XXVI, 61.
- Burkunda, *Hazaribagh* (73 E/6 ; 23° 42' : 85° 16'), sand supplies. E. H. P., **R**, LV, 17.
- Burndabon (Brindaban), *Singhbhum* (73 F/6 ; 22° 33' : 85° 25'), auriferous quartz. J. M. M., **R**, XXXI, 78.
- Burokur Khas, *Allahabad* (63 H/13 ; 24° 54' : 81° 56'), L. Rewah sandstone. F. R. M., **M**, VII, 66.
- Burrigaon (Baragaon), *Rewah* (63 H/6 ; 24° 30' : 81° 26' 30"), Canurgarh stage, section. F. R. M., **M**, VII, 82.
- Burrooria (Bharodia), *Cutch* (41 I/6 ; 23° 33' 30" : 70° 25'), *Plesiosaurus*. R. L., **R**, IX, 154.
- Buru (Budur), *Kashmir* (43 O/1 ; 33° 50' : 75° 14'), Fenestella series. C. S. M., **R**, XI, 232.
- Buru Duia, *Singhbhum* (73 F/6 ; 22° 30' 30" : 85° 29'), shale included in trap. J. A. D., **M**, LIV, 137.
- Buru Konduda, *Singhbhum* (73 F/2 ; 22° 32' : 85° 4' 30"), actinolite-phyllite. J. A. D., **M**, LIV, 60.
- Buruhatu, *Ranchi* (73 F/5 ; 22° 55' : 85° 21' 30"), tuffs, Iron Ore series. J. A. D., **M**, LIV, 92.
- Burusai, *Singhbhum* (73 F/16 ; 22° 9' : 85° 59' 30"), inclusion of hornblende-schist in granite. L. A. N., **R**, LXV, 514.
- Burwa hill (Katkoian Pahar), *Ranchi* (73 A/4 ; 23° 11' : 84° 13'), Deccan trap outlier. W. T. B., **M**, VI, 139.
- Burwai, *Indore* (55 B/3 ; 22° 15' 30" : 76° 2'), Bijawar beds. W. T. B., **M**, VI, 199 ; contact with schists, 263 (fig.) ; Bagh beds, 208, 217 ; iron-ore, 377 — Barwai.
- Burwur, *Jhansi* (54 L/15 ; 24° 19' : 78° 54'), Bijawar schists. H. B. M., **M**, II, 41.
- Bushehr, *Persian Gulf* (10 L/13 ; 28° 59' : 50° 49'), littoral concrete. G. E. P., **M**, XXXIV, pt. 4, 56, 61.
- Bushlani, *Kulu* (53 E/7 ; 31° 27' : 77° 27'), graphitic schist. H. B. M., **M**, III, pt. 2, 57.
- Busjoocea R., *Manbhum* (73 I/5 ; 23° 47' 30" : 86° 21'), Talchir-gneiss contact. T. W. H. H., **M**, V, 239 ; Barakar stage, section, 266 ; coal seams, 327.
- Buskata hill, *Korea* (64 I/11 ; 23° 21' : 82° 32'), dolerite sill. L. L. F., **M**, XII, 157.
- Busko Ghat, *Santal Parganas* (72 O/12 ; 25° 14' 30" : 87° 31'), Rajmahal plants. O. F., **R**, IX, 39.
- Busraya R. (Bans Jhor), *Manbhum* (73 I/5 ; 23° 46' : 86° 20'), Barakar stage, section. T. W. H. H., **M**, V, 260 ; coal seams, 327.
- Bussour, *Panna* (54 P/14 ; 24° 39' : 79° 51' 30"), basal beds, Bijawar series. H. B. M., **M**, II, 37.
- Bussutpoor (Basantpur), *Hazaribagh* (73 E/9 ; 23° 49' : 85° 34'), Ironstone shales. T. W. H. H., **M**, VI, 98 ; coal seams in Raniganj stage, 102.
- Busswapoor (Basavapuram), *Kurnool* (57 I/11 ; 15° 24' 30" : 78° 38'), diamond mines. W. K., **M**, VIII, 104 = Baswapur.

- Bustar (Bastar), *Eastern States* (65 E/16; 19° 12' : 81° 56'), L. Vindhyan beds. V. B., **R**, X, 180.
- Bustee, *United Provs.* (63 J/9; 26° 47' : 82° 43'), meteorite. J. C. B., **M**, XLIII, 177 = Basti.
- Bustori, *Gwalior* (54 J/8; 26° 7' : 78° 17'), pre-Vindhyan erosion of Gwaliors. F. R. M., **M**, VII, 58 (fig.) = Bastari.
- Buswareea, *Hazaribagh* (73 E/6; 23° 40' : 85° 23' 30"), limestone. A. J., **M**, LII, 144.
- Buta, *Cutch* (41 A/15; 23° 23' 30" : 68° 51'), Gaj series, *Cytherea*. E. V., **M**, L, 451.
- Buta Kundi, *Hazara* (43 F/13; 34° 56' : 73° 45' 30"), marble. L. L. F., **R**, LXV, 36.
- Buteria, *Chhindwara* (55 J/12; 22° 11' : 78° 44'), colliery. T. H. H., **R**, XXXIX, 56.
- Butharayavalsa (Budaroyavalasa), *Vizagapatam* (65 N/7; 18° 23' : 83° 29'), manganese-ore. L. L. F., **M**, XXXVII, 463, 1048.
- Buthidaung, *Akyab* (84 D/9; 20° 53' : 92° 32'), Burma earthquake, 1912. J. C. B., **M**, XLII, 69.
- Butkhak, *Afghanistan* (38 E/6; 34° 30' 30" : 69° 21' 30"), Tertiary conglomerates, &c. C. L. G., **R**, XIX, 23; XXV, 69; Klingil series. H. H. H., **M**, XXXIX, 21, 45.
- Butoli (Patoli), *Chamba* (43 P/15; 32° 28' : 75° 57'), trap rocks. C. A. M., **R**, XV, 35.
- Butsura, *Champanan* (72 A/4; 27° 7' : 84° 4'), meteorite. J. C. B., **M**, XLIII, 177.
- Buttalur, *Tanjore* (58 J/13; 10° 47' : 78° 59'), soda soil. W. K., **M**, IV, 265 = Budalur.
- Butloda (Vathod), *Amraoti* (55 K/4; 21° 13' 30" : 78° 0'), vertebrate fossils. W. T. B., **M**, VI, 285.
- Buxar, *Shuhabad* (63 O/14; 25° 34' : 83° 59'), earthquake, 1897, time record. R. D. O., **M**, XXXIX, 65, 71.
- Buxwaho, *Panna* (54 P/7; 24° 15' : 79° 17'), Deccan trap—Vindhyan junction. H. B. M., **M**, II, 61.
- Buyo Khin (? Buye-miyit), *Cheduba I.* (85 F/9; 18° 52' : 93° 39'), oil wells. E. H. P., **M**, XL, 194.
- Bwelon (Bawlon), *S. Shan States* (93 D/13; 20° 55' : 96° 48'), argentiferous galena. E. J. J., **R**, XX, 193.
- Byan Doung, *Cheduba I.* (85 F/9; 18° 48' : 93° 36'), petroleum. E. H. P., **M**, XI, 195.
- Byana, *Bharatpur* (54 F/5; 26° 54' : 77° 17'), Alwar quartzites and conglomerate. C. A. H., **R**, III, 41; X, 87 = Biana.
- Byanggee, *Bassein* (85 L/11; 16° 20' : 94° 41' 30"), trachyte. W. T., **M**, X, 330; E. H. P., **M**, XI, 47.
- Byansi (Biasi), *Garhwal* (53 N/4; 30° 2' : 79° 6'), mica-schist, structure. C. S. M., **R**, XX, 141.
- Byaukchaung, *Taroy* (95 J/3; 14° 20' : 98° 15'), wolfram. J. C. B., **R**, L, 108; **M**, XLIV, 276 : analyses. A. W. G. B., **R**, XLIII, 68.

- Byingyi, *Yamethin* (93 D/8;  $20^{\circ} 1' : 96^{\circ} 28' 30''$ ), wolfram. J. C. B., **R**, L, 102; **LII**, 245; **LVI**, 99; beryl. **M**, **XLIV**, 225.
- Byl Hongul, *Belgaum* (48 I/13;  $15^{\circ} 49' : 74^{\circ} 51' 30''$ ), reputed gold. R. B. F., **R**, **VII**, 141; **XXI**, 44 = Bail Hongul.
- Byrenconda (Viranna Konda), *Kurnool* (57 I/14;  $15^{\circ} 37' 30'' : 79^{\circ} 0'$ ), quartzites, Nallamalai series. W. K., **M**, **VIII**, 212.
- Byssia (Bisian), *Hazara* (43 F/7;  $34^{\circ} 28' : 73^{\circ} 20' 30''$ ), 'erratics'. W. T., **R**, **XIII**, 234 (Pl. x, fig. 1).
- Cadellganj, *Andamans* (87 A/10;  $11^{\circ} 41' : 92^{\circ} 40'$ ), kitchen-midden. T. H. H., **R**, **XXXI**, 45, 107.
- Cajareputty (Koneripatti), *Trichinopoly* (58 I/8;  $11^{\circ} 11' 30'' : 78^{\circ} 27'$ ), magnesite. W. K., **M**, **IV**, 320.
- Calastry, *Chittoor* (57 O/9;  $13^{\circ} 45' 30'' : 79^{\circ} 42'$ ), fault. W. K., **M**, **VIII**, 135 = Kalahasti.
- Calcutta, *Bengal* (79 B/6;  $22^{\circ} 32' : 88^{\circ} 20'$ ), boring in Fort William. H. B. M., **R**, **XIV**, 220; sub-recent oyster-bed. E. V., **R**, **XXXI**, 174; T. H. H., **R**, **XXXII**, 136; E. H. P., **R**, **LVI**, 21; fauna. N. A., **R**, **XXXVII**, 221; R. B. N., **R**, **XLII**, 1 (Pls. i-viii); earthquakes: Cutch, 1819. R. D. O., **M**, **XLVI**, 114; Cachar, 1869. T. O., **M**, **XIX**, 1, 33, 65; Assam, 1897. R. D. O., **M**, **XXIX**, 30, 44 (figs.), 257, 277, 288, 315 (Pls. xxiii, xxiv); tide-gauge record, 57 (fig.); aftershocks, 125; Kangra, 1905; C. S. M., **M**, **XXXVIII**, 258; Calcutta, 1906. **R**, **XXXVI**, 214 (Pl. xxx); Burma, 1912. J. C. B., **M**, **XLII**, 85; Srimangal, 1918. M. S., **M**, **XLVI**, 31; aftershocks, 54.
- Calicut, *Malabar* (49 M/16;  $11^{\circ} 14' 30'' : 75^{\circ} 47'$ ), only shale in boring. P. L., **M**, **XXIV**, 234; analysis of mud. R. G. Neilson, **R**, **XXXIV**, 40.
- Calwa (Kalava), *Kurnool* (57 I/2;  $15^{\circ} 37' : 78^{\circ} 12'$ ), flexure in Paniam quartzite. W. K., **M**, **VIII**, 66 (fig.); hot springs. T. O., **M**, **XIX**, 146.
- Cambauk Droog (Kambukkamdurgam), *Chingleput* (57 O/14;  $13^{\circ} 34' 30'' : 79^{\circ} 52'$ ), Nagari beds. W. K., **M**, **VIII**, 178 = Kambak Droog.
- Campbellpur, *Attock* (43 C/5;  $33^{\circ} 46' : 72^{\circ} 22'$ ), 'erratics'. W. T., **R**, **XIII**, 232; E. H. P., **R**, **LXI**, 125.
- Canning, *24-Parganas* (79 B/11;  $22^{\circ} 19' : 88^{\circ} 41'$ ), Artesian boring. E. V., **M**, **XXXII**, 45.
- Cap I., *Arakan* (85 E/7;  $19^{\circ} 24' : 93^{\circ} 28'$ ), mud volcano. P. L-r., **R**, **LXV**, 443.
- Cape Comorin, *Travancore* (58 H/12;  $8^{\circ} 5' : 77^{\circ} 33'$ ), raised beach. R. B. F., **R**, **XVI**, 30 (Pl. iii); monazite sands. G. H. T., **R**, **XLIV**, 189.
- Cape Monze, *Karachi* (35 I/9;  $24^{\circ} 50' : 66^{\circ} 40'$ ), nummulitic limestone. W. T. B., **R**, **V**, 43.
- Cape Negrais, *Bussein* (85 I/4;  $16^{\circ} 2' : 94^{\circ} 12'$ ), shales and limestone, Negrais series. W. T., **M**, **X**, 306.
- Caradeputoor (Karadiputtur), *Chingleput* (57 O/15;  $13^{\circ} 21' 30'' : 79^{\circ} 58'$ ), stone implements. R. B. F., **M**, **X**, 47.
- Carcoor (Karakod), *Wynaad* (58 A/7;  $11^{\circ} 24' : 76^{\circ} 21'$ ), charnockite. H. H. H., **M**, **XXXIII**, pt. 2, 12, 13.
- Careputty, *Salem* (58 I/6;  $11^{\circ} 40' : 78^{\circ} 17'$ ), earthquake, 1861. W. K., **M**, **IV**, 365 = Karipatti.

- Caribari, *Garo Hills* (78 K/2; 25° 39' : 90° 1'), *Charomeryx*. R. L., **R**, X, 77 = Karaibari.
- Caroor (Karur), *Trichinopoly* (58 J/1; 10° 57' : 78° 5'), granite. W. K., **M**, IV, 336.
- Carupoor, *Salem* (58 J/2; 11° 43' : 78° 5' 30"), chromite and mica. W. K., **M**, IV, 316; pot-stone quarries, 326 = Karuppur.
- Castle Rock, *N. Kanara* (48 I/7; 15° 24' : 74° 19'), Dharwar rocks. J. M. M., **R**, XXXIV, 96; L. L. F., **M**, XXXVII, 634; kaolin. E. H. P., **R**, LX, 44; manganes-ore. LXI, 64.
- Casuarina Bay, *Andamans* (86 C/15; 13° 15' : 92° 53'), Nummulites. G. H. T., **M**, XXXV, 198.
- Caudputtoor (Kattupputtur), *Trichinopoly* (58 J/1; 10° 59' 30" : 78° 13'), quasi-porphyrific gneiss. W. K., **M**, IV, 270.
- Cautranepully, *Kistna* (65 D/1; 16° 47' : 80° 8'), section, Kurnool series. R. B. F., **M**, VIII, 305 (Pl. viii, fig. 3).
- Cauvarysamoodra (Kaverisamudram), *Anantapur* (57 J/1; 14° 58' : 78° 0' 30"), Tadpatri ash beds. W. K., **M**, VIII, 185.
- Cauverypatam (Kaveripatanam), *Tanjore* (58 M/16; 11° 7' 30" : 79° 51'), shore sand, analysis. H. F. B., **M**, IV, 197.
- Cawnpore, *United Provs.* (63 B/7; 26° 28' : 80° 20'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 65, 71; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 244.
- Chaba, *Karanli* (54 B/15; 26° 27' : 76° 46'), inversion in Vindhya. A. M. H., **M**, XLV, 173 (fig.).
- Chabdhari, *Sirmur* (53 F/10; 30° 43' : 77° 32'), Jutogh series, section. G. E. P., **M**, LIII, 76.
- Chabrang, *Spiti* (52 L/4; 32° 8' : 78° 11' 30"), Hauerites beds, U. Trias. A. K., **A. R.**, 1900, 220; Lias. C. D., **M**, XXXVI, 302.
- Chachai, *Rewah* (63 H/8; 24° 10' 30" : 81° 19'), Bijawar-granite contact. R. D. O., **M**, XXXI, 120.
- Chachanbali, *Kalahandi* (65 I/9; 19° 46' : 82° 39'), Cuddapah-gneiss contact. T. L. W., **M**, XXXIII, pt. 3, 4, 12.
- Chachar Pass, *D. G. Khan* (39 G/15; 29° 26' : 69° 55'), Eocene beds. W. T. B., **M**, XX, 212.
- Chad, *Kalat* (34 L/3; 28° 18' : 66° 8'), barytes. G. H. T., **R**,<sup>\*</sup> XXXVIII, 214.
- Chada, *Rewah* (64 E/3; 23° 21' : 81° 1'), Talchir beds. T. W. H. H., **R**, XIV, 126, 312.
- Chaderkul, *E. Turkestan* (40° 30' : 75° 10'), lake. F. S., **R**, VII, 81.
- Chadoli, *Sinla* (53 E/4; 31° 3' : 77° 10'), carbonaceous limestone. G. E. P., **M**, LIII, 106.
- Chadwick, *Simla* (53 E/4; 31° 7' : 77° 8' 30"), Blaini limestone. C. A. M., **R**, X, 207; Chail overthrust, section. G. E. P., **M**, LIII, 99.
- Chagai, *Baluchistan* (34 C/11; 29° 18' : 64° 41'), volcanic rocks, flysch series. E. V., **M**, XXXI, 244 (Pl. ix, fig. 12).
- Chaganum, *Nellore* (57 N/12; 14° 12' 30" : 79° 41'), mica-bearing pegmatite. T. H. H., **M**, XXXIV, 61; columbite. **R**, XXXIX, 269; L. L. F., **M**, XXXVII, 204.

- Chagaon, *Bashahr* (53 I/2; 31° 31' 30" : 78° 5'), granite dyke. C. A. M., **R**, X, 221.
- Chagru Kotal, *Kohat* (38 K/14; 33° 34' : 70° 49'), Mesozoic fossils. H. H. H., **M**, XXVIII, 102.
- Chagya Sumdo, *Ladakh* (52 L/10; 32° 32' : 78° 39'), alluvial gold. H. H. H., **M**, XXXVI, 102.
- Chah Bashua, *Persia* (31 C/1; 25° 48' : 60° 13'), Makran series, fossils. G. H. T., **R**, LIII, 66.
- Chah Gazeek, *Afghanistan* (29 J/4; 34° 2' : 62° 2'), vertebrate fossils. C. L. G., **R**, XVIII, 60.
- Chah Marmar, *Persia* (17 O/11; 29° 15' : 55° 31'), crystalline limestone. G. E. P., **M**, XLVIII, pt. 2, 64.
- Chah Sohak, *Persia* (25 I/16; 27° 4' : 58° 53'), salt marsh. G. H. T., **R**, LIII, 52.
- Chahardar pass, *Afghanistan* (38 A/12; 35° 12' : 68° 44'), syenitic granite. C. L. G., **R**, XX, 22; old moraine, 25; Helmand series. H. H. H., **M**, XXXIX, 26, 49; moraines, 51.
- Chahardeh, *Afghanistan* (38 J/15; 34° 19' : 70° 46'), limestone. H. H. H., **M**, XXXIX, 41.
- Chahata, *Kawardha* (64 F/4; 22° 8' : 81° 12' 30'), Chilpi Ghat beds. W. K., **R**, XVIII, 187.
- Chahbar, *Persian Gulf* (31 C/11; 25° 17' 30" : 60° 37' 30"), Makran beds. G. H. T., **R**, LIII, 66; raised beaches, 68.
- Chahil, *Afghanistan* (33 M/10; 35° 38' : 67° 34'), Triassic beds with coal seams. C. L. G., **R**, XIX, 243; R. R. S., **M**, XLI, 12; fossil plants. H. H. H., **R**, XLII, 72; Saighan series. **M**, XXXIX, 30, 70; Red Grit series, 34.
- Chahistan, *Persia* (25 A/10; 27° 31' : 56° 44'), limestone, ? Oligocene. G. E. P., **M**, XLVIII, pt. 2, 100.
- Chu-ho, *Yunnan* (101 F/14; 26° 36' 30" : 101° 48'), diorite with serpentine. J. C. B., **R**, LIV, 334.
- Chahul (Chahaltoli), *Palamau* (73 A/14; 23° 41' : 84° 54'), Panchet series. A. J., **M**, LII, 134.
- Chaibasa, *Singhbhum* (73 F/14; 22° 33' : 85° 48'), 'kankar'. V. B., **M**, XVIII, 122, 147; ribbon-jasper, 127; calcareous schist, 129; manganiferous iron-ore, 146; manganese-ore. L. L. F., **M**, XXXVII, 618; rock-crystal. **R**, LIII, 266; Iron Ore series. J. A. D., **M**, LIV, 19; Singhbhum granite, 100; dolerite dykes, 123; manganese-ore, 141, 165.
- Chaieta, *Manbhum* (73 I/1; 23° 51' : 86° 10'), 'needle shales'. T. W. H. H., **M**, V, 237.
- Chail, *Patiala* (53 F/1; 30° 58' : 77° 12'), Chail series. G. E. P., **M**, LIII, 17; Jutogh series, 23.
- Chaindanumgalum (Sendamangalam), *Salem* (58 I/3; 11° 17' : 78° 14'), iron furnace. W. K., **M**, IV, 375 (fig.).
- Chaingzauk, *Pakokku* (84 K/10; 21° 32' 30" : 94° 32'), vertebrate fossils. C. S. M., **R**, XLV, 126.
- Chainpur, *Azimgarh* (63 O/5; 25° 51' : 83° 26'), meteorite. G. C., **R**, XLII, 268 (fig. & Pls. xxxiv-xxxviii); J. C. B., **M**, XLIII, 181.

- Chainpur, *Surguja* (64 J/13; 22° 59' : 82° 58' 30"), Talchir beds. V. B., **R**, XV, 110.
- Chaiteo (Kyaiktiyo), *Thaton* (94 G/3; 17° 29' : 97° 6'), biotite-granite. E. H. P., **R**, LX, 81.
- Chak Dalla, *Attock* (43 C/6; 33° 39' : 72° 23' 30"), petroleum. H. H. H., **R**, XLIV, 22; oilfield. E. H. P., **M**, XL, 382 (fig. & Pls. lxxii-lxxvi).
- Chakang, *Sikkim* (78 A/4; 27° 10' : 88° 14'), Daling series—gneiss boundary. P. N. B., **R**, XXIV, 46; carbonaceous shale, 222.
- Chakar, *Jammu* (43 K/12; 33° 11' : 74° 36'), bauxite. C. S. F., **M**, XLIX, 102.
- Chakargaon, *Andamans* (87 A/10; 11° 39' : 92° 42'), chromite. F. R. M., **R**, XVII, 83=Chuckergaon.
- Chakari, *Rewah* (63 L/7; 24° 28' : 82° 27'), Bijawar slate. E. V., **M**, XXXI, 63.
- Chakbaga, *Bankura* (73 I/14; 23° 34' 30" : 86° 55' 30"), coal seam. W. T. B., **M**, III, 122.
- Chakdara, *Swat* (43 B/2; 34° 39' : 72° 2'), metamorphic rocks. H. H. H., **R**, XLV, 275.
- Chakhred R., *Simla* (53 E/8; 31° 2' : 77° 18'), Jaunsar series. G. E. P., **M**, LIII, 88, 119.
- Chaki, *Singhbhum* (73 F/5; 22° 46' : 85° 24' 30"), kyanite. J. A. D., **M**, LIV, 45.
- Chakias, *Punch* (43 K/1; 33° 51' : 74° 4'), Murree sandstone. D. N. W., **M**, LI, 320.
- Chak-kara-kul, *Kashgar* (42 N/1; 38° 54' : 75° 13'), granite. H. H. H., **R**, XLV, 324.
- Chakoti, *Kashmir* (43 F/16; 34° 7' : 73° 53'), palm frond. R. L., **R**, XV, 20 (note); **M**, XXII, 89; description. O. F., **R**, XV, 52 (Pl. v).
- Chakradharpur, *Singhbhum* (73 F/10; 22° 41' : 85° 38'), Iron Ore series. J. A. D., **M**, LIV, 17, 25; magnesian limestone, 29, 32; hornstone-breccia, 36; tuffs, 73; granite-gneiss, 107; quartz-tourmaline veins, 143.
- Chakrata, *Dehra Dun* (53 F/14; 30° 42' : 77° 52'), Chakrata (Jaunsar) series. R. D. O., **R**, XVI, 193; XXI, 131; Simla and Jaunsar series. G. E. P., **M**, LIII, 46.
- Chakri, *Kharsawan* (73 F/9; 22° 45' : 85° 44' 30"), felspathic schist. J. A. D., **M**, LIV, 54.
- Chakram, *Tibet* (77 K/11; 29° 20' : 90° 42'), syenite. H. H. H., **R**, XXXII, 169; sand dunes. **M**, XXXVI, 128; hornblende diorite, petrology, 180; gold concentrates. J. M. M., **R**, XXXII, 171; **M**, XXXVI, 190.
- Chakwal, *Jhelum* (43 D/13; 32° 56' : 72° 52'), Siwalik syncline. E. H. P., **R**, LX, 103.
- Chal Mirza Rabat, *Russian Turkestan* (42 F/14; 38° 33' : 73° 58'), conglomerate, ? Tertiary. H. H. H., **R**, XLV, 316.
- Chala, *Simmur* (53 I/5; 30° 57' 30" : 77° 21'), unconformity, Chail-Blaini series. G. E. P., **M**, LIII, 23.
- Chalgali, *Surguja* (64 M/6; 23° 37' : 83° 22' 30"), granite. C. L. G., **M**, XV, 136.
- Chalisgaon, *E. Khandesh* (46 P/3; 20° 27' : 75° 1'), water-supply. E. H. P., **R**, LVI, 34; LIX, 54.

- Chalk Hills, *Salen* (58 1/2 ; 11° 42' : 78° 6'), magnesite and chromite. W. K., **M**, IV, 312; T. H. H., **R**, XXV, 143; C. S. M., **R**, XXIX, 31 (Pls. ii-vi).
- Challapuram, *Vizagapatam* (65 N/7; 18° 20' 30" : 83° 28'), manganese-ore. L. L. F., **M**, XXXVII, 435, 463, 1048.
- Chalt, *Nagir* (42 L/7; 36° 15' : 74° 20'), metamorphic rocks. H. H. H., **R**, XLV, 297.
- Chalwad (Chelad), *Burdwan* (73 M/2; 23° 38' : 87° 2'), coal seam. W. T. B., **M**, 111, 108.
- Chamakapalli, *Kurnool* (57 I/6; 15° 39' : 78° 21'), hot spring. T. O., **M**, XIX, 148.
- Chaman, *Quetta-Pishin* (34 J/5; 30° 52' : 66° 27'), Baluchistan earthquake, 1892. C. L. G., **R**, XXVI, 59; F. M. B., **M**, XXXV, 155.
- Chamardi, *Kathiawar* (41 O/13; 21° 50' : 71° 54'), igneous rocks. F. F., **M**, XXI, 99.
- Chamarkand Pass, *Chitral* (42 D/11; 36° 15' 30" : 72° 39'), Reshun conglomerate. E. H. P., **R**, LVI, 45.
- Chamarlang, *Loralai* (39 F/11; 30° 17' : 69° 39' 30"), coal seam. V. B., **R**, VII, 154; W. T. B., **M**, XX, 157; R. R. S., **M**, XLI, 31.
- Chamba, *Punjab* (52 D/2; 32° 33' : 76° 7'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 181; landslip. E. H. P., **R**, LXII, 51—Chumba.
- Chambal Mt., *Jhelum* (43 H/6; 32° 42' : 73° 25'), structure. A. B. W., **M**, XIV, 131 (fig. 13); E. H. P., **R**, LXIII, 135; Siwalik beds. C. E. P., **R**, XLIII, 269 (Pl. xxviii, fig. 1).
- Chamelikund, *Narsinghpur* (55 N/1; 22° 47' 30" : 79° 7'), leuchtenbergite. E. H. P., **R**, LXII, 132.
- Chamiati, *Punch* (43 F/12; 34° 3' 30" : 73° 33'), syncline, U. Murree. D. N. W., **M**, LI, 332.
- Chamil, *Shahpur* (43 D/6; 32° 35' : 72° 23' 30"), coal seam. A. B. W., **M**, XIV, 205 (Pl. xxi); R. R. S., **M**, XLI, 109.
- Chamoli, *Gurukul* (53 N/7; 30° 24' : 79° 20'), sericitic quartzites. T. H. H., **R**, XXVII, 57.
- Chamoursi, *Chanda* (56 M/13; 19° 56' : 79° 54'), iron-ore. H. H. H., **R**, XLI, 71.
- Champagiri, *Garo Hills* (78 K/2; 25° 39' : 90° 1'), lignite. H. B. M., **R**, I, 14; R. R. S., **M**, XLI, 23.
- Champaner, *Panch Mahals* (46 F/11; 22° 29' : 73° 32'), Champaner series. W. T. B., **M**, VI, 203, 338; manganeseiferous quartzite. L. L. F., **M**, XXXVII, 660.
- Chamrajnagar, *Mysore* (58 A/13; 11° 56' : 76° 56'), mica. T. H. H., **M**, XXXIV, 68.
- Chamrer, *Punch* (43 K/6; 33° 34' 30" : 74° 20'), Dogra slates. D. N. W., **M**, LI, 229, 312.
- Chamurchi, *Bhutan* (78 F/1; 26° 54' 30" : 89° 7'), copper-ore. F. R. M., **M**, XI, 79.
- Chanambaniali, *Almora* (62 B/6; 30° 39' : 80° 20'), Spiti shales. C. L. G., **R**, XXVI, 20.
- Chanaud, *Jodhpur* (45 G/2; 25° 32' : 73° 8'), Mulani rhyolite. C. A. H., **R**, XIV, 302 = Chanod.



- Chanch, *Manbhum* (73 I/14; 23° 43' : 86° 46' 30"), coal seam. W. T. B., **M**, III, 66; R. R. S., **M**, XLI, 45, 47; hot spring. V. B., **M**, XVIII, 72; false bedding in Barakar sandstone. C. S. F., **R**, LX, 363 (Pl. xxix).
- Chanda, *Central Provs.* (56 M/5; 19° 57' : 79° 18'), coalfield. W. T. B., **R**, I, 23; borings for coal. T. O., **R**, II, 94; T. W. H. H., **M**, XIII, 35; laterite, 92.
- Chandadoh, *Balaghat* (55 O/10; 21° 42' : 79° 41'), manganese-ore. L. L. F., **M**, XXXVII, 698.
- Chandakarpur, *Akola* (55 G/4; 21° 7' : 77° 7'), meteorite. J. C. B., **M**, XLIII, 182.
- Chandameta, *Chhindwara* (55 J/12; 22° 11' : 78° 42' 30"), colliery. R. R. S., **M**, XLI, 95; analysis of coal. G. V. H., **R**, LIX, 177.
- Chundan Namo pass, *Bashahr* (52 L/12; 32° 0' : 78° 36'), high-level gravels. C. A. M., **R**, XII, 66; XVIII, 81.
- Chandankiari, *Manbhum* (73 I/6; 23° 34' : 86° 22'), supposed coal. E. H. P., **R**, LXII, 143.
- Chandanwari, *Kashmir* (43 N/8; 34° 6' : 75° 25'), Panjal slates. R. L., **R**, XI, 44.
- Chandaos, *Aligarh* (53 H/16; 28° 5' : 77° 51'), geodetic station. R. D. O., **M**, XLII, 244.
- Chandap, *Idar* (46 A/13; 23° 56' : 72° 51' 30"), calc-gneiss. C. S. M., **M**, XLIV, 13; biotite-gneiss, 23.
- Chandarnath, *Chittagong* (79 N/10; 22° 38' : 91° 41'), gas seepage. E. H. P., **M**, XL, 313.
- Chandarpur, *Bilaspur* (64 O/2; 21° 42' 30" : 83° 14'), sandstones. W. K., **R**, XVIII, 173.
- Chandarpur, *Seoni* (55 O/9; 21° 49' 30" : 79° 37'), laterite conglomerate. R. C. B., **R**, XLVIII, 206; sandstone interbedded with laterite, 209.
- Chandbali, *Balasore* (73 L/9; 20° 46' : 86° 42'), earthquake, 1897. R. D. O., **M**, XXIX, 59 (note).
- Chandernagore, *Bengal* (79 B/5; 22° 52' : 88° 22'), Artesian well. R. D. O., **R**, XXVI, 100; E. V., **M**, XXXII, 46.
- Chandgarh, Chandgad, *Belgaum* (48 I/1; 15° 56' : 74° 11'), pisolitic laterite. R. B. F., **M**, XII, 207; manganese sandstone. L. L. F., **M**, XXXVII, 977; bauxite. C. S. F., **M**, XLIX, 69.
- Chandghur, *Nimar* (55 B/11; 22° 15' 30" : 76° 37'), iron-ore. T. O., **M**, II, 271; Bijawar rocks. W. T. B., **M**, VI, 199; sub-recent conglomerate, 250; trap dykes. P. N. B., **M**, XXI, 54.
- Chandi hills, *Garhwal* (53 K/1; 29° 53' : 78° 13'), Siwalik beds. R. D. O., **R**, XVII, 165.
- Chandia, *Rewah* (64 A/10; 23° 39' : 80° 42' 30"), Jabalpur plants. O. F., **R**, XIII, 190; pottery clay. F. R. M., **R**, XXII, 142.
- Chandil, *Manbhum* (73 J/1; 22° 57' : 86° 3'), hornblendic rocks. J. M. M., **R**, XXXI, 74.
- Chandimar, *Punch* (43 K/6; 33° 37' : 74° 25' 30"), Dogra slates. D. N. W., **M**, LI, 313, 315.
- Chandipur, *Cuchar* (83 D/10; 24° 42' : 92° 30"), brine springs. E. H. P., **M**, XL, 310.

- Chanditolah, *Hooghly* (79 B/6;  $22^{\circ} 41' : 88^{\circ} 16'$ ), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 223.
- Chandkar, *Puri* (73 H/15;  $20^{\circ} 22' : 85^{\circ} 46'$ ), section in laterite. W. T. B., **M**, I, 288; boring site for coal. V. B., **R**, X, 68.
- Chandnai R., *Surguja* (64 M/4;  $23^{\circ} 5' : 83^{\circ} 2'$ ), coal seam. V. B., **R**, XV, 109; **R. R. S.**, **M**, XLI, 82.
- Chandnota, *Jubbulpore* (55 M/15;  $23^{\circ} 24' : 80^{\circ} 0'$ ), pyrolusite. P. N. B., **R**, XXI, 85; Gosalpur quartzites. XXII, 219.
- Chandol, *Hazuribagh* (73 E/5;  $23^{\circ} 51' 30'' : 85^{\circ} 15' 30''$ ), Ironstone shales- Raniganj stage, section. A. J., **M**, LII, 128.
- Chandpoor, *Ali-Rajpur* (46 J/3;  $22^{\circ} 21' 30'' : 74^{\circ} 14' 30''$ ), limestone band in gneiss. W. T. B., **M**, VI, 196.
- Chandpur, *Bhandara* (55 O/14;  $21^{\circ} 30' 30'' : 79^{\circ} 49' 30''$ ), Chilpi quartzite. L. L. F., **M**, XXXVII, 313, 734.
- Chandpur, *Mainpuri* (54 I/15;  $27^{\circ} 18' 30'' : 78^{\circ} 59'$ ), meteorite. H. B. M., **R**, XVIII, 148; J. C. B., **M**, XLIII, 183.
- Chandpur, *Sirmur* (53 F/10;  $30^{\circ} 42' : 77^{\circ} 40'$ ), unconformity, Blaini-Jaunsar series. G. E. P., **M**, LIII, 37.
- Chandpur, *Tippera* (79 I/12;  $23^{\circ} 13' 30'' : 90^{\circ} 39'$ ), earthquake, 1897, sand-vent. R. D. O., **M**, XXIX, 333; Srimangal earthquake, 1918. M. S., **M**, XLVI, 27; aftershock, 54.
- Chandra R., *Lahul* (52 H/S. W.;  $32^{\circ} 20' : 77^{\circ} 20'$ ), granite veins in gneiss. F. R. M., **M**, V, 170 (Pl. ii, fig. 1); biotite schists and granite. H. H. H., **M**, XXXVI, 11, 97.
- Chandra Sekhapuram, *Nellore* (57 M/8;  $15^{\circ} 11' : 79^{\circ} 17'$ ), granitoid gneiss band. R. B. F., **M**, XVI, 15.
- Chandrakup, *Las Bela* (35 G/15;  $25^{\circ} 26' 30'' : 65^{\circ} 52'$ ), mud volcanoes. W. T. B., **R**, V, 43.
- Chandravan, *Rajpipla* (46 G/6;  $21^{\circ} 38' : 73^{\circ} 24'$ ), calcite veins in trap. P. N. B., **R**, XXXVII, 185.
- Chandsain, *Jaipur* (45 N/7;  $26^{\circ} 19' : 75^{\circ} 27'$ ), Alwar conglomerates and quartzites. A. M. H., **R**, LIV, 361.
- Chandnidol, *Rewah* (63 H/16;  $24^{\circ} 6' 30'' : 81^{\circ} 45'$ ), Raniganj plants. O. F., **R**, XIII, 184; T. W. H. H., **R**, XIV, 130.
- Chandun, *Bhagalpur* (72 L/10;  $24^{\circ} 37' : 86^{\circ} 40' 30''$ ), pyromorphite. A. L. C., **R**, LXII, 291.
- Chandur, *Chanda* (56 M/1;  $19^{\circ} 57' 30'' : 79^{\circ} 7'$ ), Talchir beds. T. W. H. H., **M**, XIII, 15.
- Chanduria, *Dinajpur* (78 C/6;  $25^{\circ} 44' 30'' : 88^{\circ} 22'$ ), geodetic station. R. D. O., **M**, XLII, 223, 243.
- Chaneli hill, *Chhindwara* (55 N/3;  $22^{\circ} 18' : 79^{\circ} 6'$ ), Deccan trap flows. J. G. M., **M**, II, 219.
- Chaneni, *Jammu* (43 O/8;  $33^{\circ} 2' : 75^{\circ} 16' 30''$ ), Murree conglomerate. R. L., **M**, XXII, 88—Chineni.
- Chang La, *Ladakh* (52 F/16;  $34^{\circ} 2' : 77^{\circ} 55'$ ), micaceous syenite. R. D. O., **R**, XXI, 154; porphyritic diorite, petrology. C. A. M., **M**, XXXI, 321.
- Changa, *Kashmir* (43 J/2;  $34^{\circ} 43' : 74^{\circ} 3'$ ), dolomite. R. L., **R**, XV, 17.

- Ch'ang-an, *Yunnan* (102 E/4 ; 23° 7' : 101° 7'), Permian limestone. J. C. B., **R**, LIV, 319.
- Changas (Ching'as), *Gujrat* (43 H/10 ; 32° 44' : 73° 36'), U. Siwalik fossils. R. L., **R**, VIII, 48.
- Changchenmo R., *Ladakh* (52 J/7 ; 34° 17' : 78° 20'), Carbo-Triassic beds. F. S., **R**, VII, 13 ; R. L., **R**, XIII, 34 ; **M**, XXII, 181 ; Tertiary beds. **R**, XIV, 33 ; **M**, XXII, 113.
- Changeli hill, *Jubbulpore* (64 A/3 ; 23° 24' : 80° 2'), manganese-ore. P. N. B., **R**, XXI, 85 ; L. L. F., **M**, XXXVII, 834.
- Changla Gulee, *Hazara* (43 G/5 ; 34° 0' : 73° 23'), Trias-Eocene, section. C. S. M., **M**, XXVI, 190 (Pl. x) — Changligali.
- Chang-lang pass, *Ladakh* (52 J/14 ; 34° 35' : 78° 47'), Triassic limestone. F. S., **R**, VII, 14.
- Changligali, *Hazara* (43 G/5 ; 34° 0' : 73° 23'), Nummulitic beds. A. B. W., **R**, VII, 73 = Changla Gulee.
- Changnu, *Spiti* (52 H/16 ; 32° 2' : 77° 55'), Cambrian beds, section. H. H. R., **M**, XXXVI, 17.
- Chango, *Bashahr* (53 I/9 ; 31° 59' : 78° 36'), 'central gneiss'. F. S., **M**, V, 16 ; gypsum. F. R. M., **M**, V, 156 ; kyanite. C. A. M., **R**, XII, 60 ; H. H. H., **M**, XXXVI, 9, 11.
- Chango, Mt., *Garhwal* (53 N/13 ; 30° 54' : 79° 48'), Haimanta beds. C. L. G., **M**, XXIII, 94.
- Changoba, *Chhindwara* (55 K/9 ; 21° 47' : 78° 31'), Deccan trap flow. H. H. H., **R**, XLIV, 35 ; chlorophæite. L. L. F., **R**, XLVII, 94.
- Ch'ang-po-ling, *Yunnan* (101 D/3 ; 24° 22' : 100° 6'), river terrace. J. C. B., **R**, LIV, 299.
- Changra, *Tibet* (77 H/10 ; 28° 34' : 89° 41'), medicinal spring. T. O., **M**, XIX, 131.
- Changrizang, *Bashahr* (52 L/12 ; 32° 2' : 78° 37' 30"), 'central gneiss'. F. S., **M**, V, 16 ; H. H. H., **M**, XXXVI, 8 ; dolerite. F. S., **M**, V, 20 ; H. H. H., **M**, XXXVI, 45 ; hot springs, sulphurous. F. R. M., **M**, V, 158 ; T. O., **M**, XIX, 127.
- Changuria Buru, *Singbhum* (73 F/16 ; 22° 5' 30" : 85° 58'), granite bosses. L. A. N., **R**, LXV, 516.
- Chanju, *Chamba* (52 D/6 ; 32° 42' : 76° 18'), Blaini conglomerate. C. A. M., **R**, XVIII, 86.
- Channagiri, *Shimoga* (48 N/16 ; 14° 1' : 75° 56'), manganese-ore. L. L. F., **M**, XXXVII, 1145.
- Channur, *Gulbarga* (56 D/11 ; 16° 29' : 76° 33' 30"), limestone, Bhima series. R. B. F., **M**, XII, 154.
- Chano, *Hazaribagh* (73 E/6 ; 23° 45' : 85° 20'), fault in Talchirs. T. W. H. H., **M**, VII, 295.
- Chanod, *Jodhpur* (45 G/2 ; 25° 32' : 73° 8'), Malani rhyolite. T. D. L., **M**, XXXV, 66 = Chanaud.
- Chanowali, *Punch* (43 K/6 ; 33° 41' : 74° 22'), glaciated mountain slopes. D. N. W., **M**, LI, 311.
- Chanuwala, *Jhelum* (43 H/2 ; 32° 43' 30" : 73° 8'), rock-salt. E. H. P., **R**, LXII, 64.

- Chao-chuang, *Yunnan* (101 C/6;  $25^{\circ} 32' : 100^{\circ} 19'$ ), Permo-Carboniferous limestone. J. C. B., **R**, LIV, 73.
- Chaome (Chomu), *Alwar* (54 A/11;  $27^{\circ} 21' : 76^{\circ} 42' 30''$ ), folding in Ajabgarh series. A. M. H., **M**, XLV, 82.
- Chaomukh, *Jammu* (43 G/11;  $33^{\circ} 18' : 73^{\circ} 44' 30''$ ), Siwalik boulder conglomerate. D. N. W., **M**, LI, 360.
- Chaonri, *Simla* (53 E/4;  $31^{\circ} 1' 30'' : 77^{\circ} 11' 30''$ ), unlier, Blaini beds. G. E. P., **M**, LIII, 86.
- Chaurigarh (Promnara in Fort), *Narsinghpur* (55 A/13;  $22^{\circ} 45' : 78^{\circ} 55'$ ), Jabalpur conglomerate. H. B. M., **M**, X, 150 = Chaurigarh.
- Chao-tung Fu, *Yunnan* (101 M/11;  $21^{\circ} 20' : 103^{\circ} 41'$ ), silver-lead mines. J. C. B., **M**, XLVII, 124.
- Chap Dara, *Afghanistan* (33 N/13;  $34^{\circ} 47' : 67^{\circ} 50'$ ), fault. H. H. H., **M**, XXXIX, 54.
- Chapani, *Rewah* (64 E/15;  $23^{\circ} 18' : 81^{\circ} 57'$ ), coal seam. T. W. H. H., **M**, XXI, 194.
- Chapar range, *Baluchistan* (34 C/8;  $20^{\circ} 4' : 64^{\circ} 22'$ ), Cretaceous limestone. E. V., **M**, XXXI, 236 (Pl. viii, fig. 5).
- Chaparbhita, *Sawal Parganas* (72 P/5;  $24^{\circ} 46' : 87^{\circ} 26'$ ), coalfield. R. R. S., **M**, XLI, 38 = Chuperbhita.
- Chapari (Chapalli), *Chitral* (42 D/11;  $36^{\circ} 20' : 72^{\circ} 36'$ ), copper-ore. E. H. P., **R**, LVI, 24.
- Chaper, *Cutch* (41 I/5;  $23^{\circ} 51' : 70^{\circ} 16' 30''$ ), stalactitic laterite. A. B. W., **M**, IX, 69 (fig.).
- Chap-Kolak Kotal, *Afghanistan* (? 33 N/9;  $35^{\circ} 0' : 67^{\circ} 38'$ ), basic intrusions. H. H. H., **M**, XXXIX, 55.
- Chapoli, *Belgaum* (48 I/6;  $15^{\circ} 39' : 74^{\circ} 21'$ ), sedimentary laterite. R. B. F., **M**, XII, 212.
- Chapoli, *Jaipur* (45 M/10;  $27^{\circ} 44' 30'' : 75^{\circ} 33'$ ), granite. A. M. H., **R**, LIV, 381.
- Chappar rift, *Sibi* (34 N/7;  $30^{\circ} 20' : 67^{\circ} 29'$ ), Belemnite shales. R. D. O., **R**, XXIII, 94; C. L. G., **R**, XXVI, 120; boring for oil. W. K., **R**, XXV, 116; XXVI, 9.
- Chappatand, *Hazuribagh* (72 H/14;  $24^{\circ} 40' : 85^{\circ} 57'$ ), cassiterite-granulite. L. L. F., **R**, XXXIII, 235.
- Chapra, *Saruikela* (73 J/2;  $22^{\circ} 42' : 86^{\circ} 0' 30''$ ), kaolin. E. H. P., **R**, LVI, 30.
- Chapra, *Saran* (72 C/9;  $25^{\circ} 47' : 84^{\circ} 44'$ ), earthquake, 1897, time record. R. D. O., **M**, XXIX, 65, 71.
- Chapra, *Tibet* (77 K/11;  $29^{\circ} 15' : 90^{\circ} 33'$ ), widening of Tsungpo valley. H. H. H., **M**, XXXVI, 128.
- Chapri, *Attock* (38 O/15;  $33^{\circ} 24' : 72^{\circ} 0'$ ), Siwalik syncline. L. L. F., **R**, LXV, 122.
- Chapri, *Punch* (43 K/5;  $33^{\circ} 52' 30'' : 74^{\circ} 16' 30''$ ), Gondwana quartzite. D. N. W., **M**, LI, 306.
- Chapri, *Shahpur* (38 P/15;  $32^{\circ} 30' : 71^{\circ} 55'$ ), oil seepage. E. H. P., **M**, XL, 434.
- Chapri, *Singhbhum* (73 J/6;  $22^{\circ} 37' : 86^{\circ} 25'$ ), kyanite-rock. J. A. D., **M**, LII, 238 (Pl. xvi, fig. 2).

- Chapudhea Pat, *Ranchi* (73 A/11; 23° 28' : 84° 33' 30"), aluminous laterite. C. S. F., **M**, XLIX, 170.
- Charaido, *Sibsagar* (83 J/13; 26° 54' 30" : 94° 51'), ferruginous conglomerate. F. R. M., **M**, XI, 296 = Cheryedo.
- Charakra Doi, *Cutch* (41 E/5; 23° 54' : 69° 18'). R. D. O., **M**, XLVI, 103 = Jerruk Dhooi.
- Charaldanga, *Malda* (78 D/5; 24° 53' : 88° 23'), geodetic station. R. D. O., **M**, XLII, 222.
- Charali, *Sibsagar* (83 J/6; 26° 43' : 94° 27') Dihing conglomerate. E. H. P., **M**, XL, 284.
- Charasia, *Afghanistan* (38 F/3; 34° 24' : 69° 9'), metamorphic rocks. H. H. H., **M**, XXXIX, 17.
- Chareha, *Korea* (64 I/11; 23° 20' : 82° 33' 30"), sandstone veins in coal. L. L. F., **M**, XLI, 174; coal seams, 191, 217, 219 = Churcha.
- Charg pass, *Persia* (25 A/1; 27° 55' : 56° 1'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 100.
- Chargaon, *Nagpur* (55 O/7; 21° 24' : 79° 18'), beldongrite. L. L. F., **M**, XXXVII, 115; rhodonite-rock, 144, 604; spessartite, 166, 177, 351; manganescophosphate, 207; barytes, 221, 296; manganesc-ore, 883 (figs.).
- Chargora, *Mambhum* (73 I/9; 23° 51' : 86° 42'), Talchir boulder bed. W. T. B., **M**, III, 37.
- Chari, *Cutch* (41 E/6; 23° 32' : 69° 16'), Jurassic fossils. W. T. B., **M**, VI, 24; W. W., **R**, IV, 97.
- Chari Buru, *Singhbhum* (73 F/10; 22° 38' : 85° 43'), slickensides in quartzite. J. A. D., **M**, LIV, 20 (Pl. ii, fig. 1).
- Charikar, *Afghanistan* (38 E/4; 35° 2' : 69° 10'), graphite. C. L. G., **R**, XX, 23; biotite-gneiss and granite. H. H. H., **M**, XXXIX, 19.
- Charkari, *Kathiawar* (41 K/9; 21° 54' : 70° 40'), trap dyke. F. F., **M**, XXI, 101.
- Charki, *Hazaribagh* (72 H/14; 24° 34' : 85° 50'), mica. T. H. H., **M**, XXXIV, 45.
- Charli, *Adilabad* (56 M/5; 19° 51' : 79° 16'), flexible sandstone. T. W. H. H., **M**, XIII, 16; R. D. O., **R**, XXII, 54 (Pl. ii).
- Charma, *Sirmur* (53 F/5; 30° 46' : 77° 28' 30"), garnet zone, Chor Mt. G. E. P., **M**, LIII, 71.
- Charnpur, *Burdwan* (73 M/2; 23° 44' : 87° 2'), collicry. W. T. B., **M**, III, 104; R. R. S., **M**, XLI, Pl. x.
- Charund (Chironj), *Tonk* (45 N/16; 26° 12' : 75° 52' 30"), mica. A. M. H., **R**, LIV, 389.
- Charwada, *Surat* (46 D/14; 20° 40' 30" : 72° 55'), salt works. W. K. C., **R**, LVII, 270.
- Charwahi, *Korea* (64 I/3; 23° 27' : 82° 1'), coal seams. T. W. H. H., **M**, XXI, 196, 238.
- Charwallas (Chaharwala), *Hissar* (44 O/3; 29° 17' : 75° 13'), meteorite. J. C. B., **M**, XLIII, 184.
- Charwar range, *Cutch* (41 E/12; 23° 10' : 69° 35'), Jurassic plant beds. W. T. B., **M**, VI, 22; A. B. W., **M**, IX, 180.

- Charwat, Chanda (56 M/5; 19° 54' : 79° 17' 30"), Kamthi plants. T. W. H. H., M, XIII, 69, 73.
- Chashma Raughan, *Persia* (10 E/10; 31° 33' : 49° 41'), recent conglomerate. G. E. P., M, XXXIV, pt. 4, 79.
- Chashmah Gaz, *Persia* (24 B/11; 30° 25' : 56° 44' 30"), faulted boundary, Jurassic-Cretaceous. G. E. P., M, XLVIII, pt. 2, 55.
- Chashmai (Chasmiah), *Mianwali* (38 P/5; 32° 58' : 71° 16'), Permo-Carboniferous fossils. A. B. W., M, XVII, 259; coal seam. R. R. S., R, XXXI, 20 = Chushmea.
- Chasma Sabz pass, *Afghanistan* (29 F/9; 34° 53' : 61° 36'), Red grit series, section. C. L. G., R, XIX, 58.
- Chatabar, *Manbhum* (73 I/10; 23° 44' 30" : 86° 44'), Barakar beds. E. H. P., R, LXIII, 120.
- Chatai, *Rewah* (64 E/15; 23° 29' : 81° 53' 30"), coal seams. T. W. H. H., M, XXI, 195, 238.
- Chatan, *Korea* (64 I/3; 23° 25' : 82° 9'), coal seam. T. W. H. H., M, XXI, 196, 238.
- Chatarpura, *Bundi* (54 C/2; 25° 43' : 76° 11'), U. Rewah sandstone. A. L. C., R, LX, 172.
- Chatham I., *Andamans* (87 A/10; 11° 41' : 92° 44'), Eocene conglomerate, R. D. O., R, XVIII, 138.
- Chati R., *Hazaribagh* (73 A/14; 23° 40' : 84° 56'), coal seams. T. W. H. H., M, VII, 312=Chuttee R
- Chatik, *Manipur* (83 L/9; 24° 58' : 94° 37'), kaolin. R. D. O., M, XIX, 219.
- Chatni, *Rewah* (63 L/11; 24° 27' : 82° 31' 30"), Bijawar quartzite. E. V., M, XXXI, 63.
- Chatonwa, *Bhopal* (55 E/10; 23° 34' : 77° 30'), aluminous laterite. C. S. F., M, XLIX, 108.
- Chatra, *Murshidabad* (78 D/8; 24° 14' : 88° 23'), geodetic station. R. D. O., M, XLII, 229.
- Chatrai, *Kistna* (65 D/13; 16° 59' 30" : 80° 52'), Kamthi sandstone boundary. W. T. B., R, V, 26.
- Chatriaganda, *Burdwan* (73 M/2; 23° 44' : 87° 13' 30"), faulted coal seam. E. H. P., R, LXII, 143.
- Chatau, *Jaipur* (45 N/14; 26° 36' : 75° 57'), Aravalli rocks (?). A. M. H., R, LIV, 360.
- Chattarband Kota, *Mudhol* (47 P/8; 16° 12' 30" : 75° 23'), L. Kaladgi limestone. R. B. F., M, XII, 124.
- Chattuc, *Sylhet* (78 O/12; 25° 2' : 91° 40'), lime-burning. T. O., M, I, 181 = Chhatak.
- Chatua Buru, *Singhbhum* (73 F/7; 22° 16' : 85° 24'), iron-ore. E. H. P., R, LHI, 17.
- Chatuhasa, *Ranchi* (73 F/9; 22° 53' 30" : 85° 40' 30"), auriferous quartz. J. A. D., M, LIV, 162.
- Chatur Doria hill, *Chhindwara* (55 J/10; 22° 40' : 78° 34'), limestone bands in Mahadeva series. J. G. M., M, II, 189 (fig.); Mahadeva boundary fault, 231 (fig.); Bagra beds. H. B. M., M, X, 151,

- Chaudrawati, *Sirohi* (45 D/15; 24° 26' 30" : 72° 46'), titaniferous augite. A. L. C., R, LXIII, 448; olivine-gabbro, twinning of feldspars. LXV, 163.
- Chaukhandi, *Balaghat* (55 O/14; 21° 44' : 79° 46' 30"), manganese-ore. L. L. F., M, XXXVII, 713.
- Chaung Magyi R., *Mandalay* (93 B/3; 22° 17' : 96° 13'), L. Palaeozoic quartzites and slates. T. D. L., M, XXXIX, pt. 2, 47; fault, 358.
- Chaungbyu, *Minbu* (84 L/8; 20° 5' : 94° 28'), Eocene fossils. G. C., R, XLI, 227.
- Chaunggyauk, *Thayetmyo* (85 M/6; 19° 43' : 95° 22'), Miocene Unionidae. E. V., & B. P., R, LI, 371 (Pl. xii).
- Chaunggyi, *Ruby Mines* (93 B/2; 22° 43' 30" : 96° 1'), mica. L. L. F., R, LIV, 26.
- Chaungtanaung, *Mergui* (96 J/9; 10° 53' : 98° 43'), tin-ore. T. W. H. H., R, XXII, 200; T. H. H., R, XXXVII, 40=Chungtanang.
- Chaungzon, *Kyaukse* (93 C/6; 21° 35' : 96° 21'), Sindetaung shales. E. H. P., R, LVIII, 50.
- Chaungzon, *N. Shan States* (93 B/15; 22° 21' : 96° 50'), Ordovician fossils. T. D. L., M, XXXIX, pt. 2, 74, 339.
- Chautra, *Attock* (43 C/15; 33° 21' : 72° 56'), syncline in Siwaliks. D. N. W., M, LI, 336.
- Chauradih (Chirodih), *Ranchi* (73 A/7; 23° 20' : 84° 19' 30"), bauxite. C. S. F., M, XLIX, 181.
- Chaurha Hat, *Cooch Behar* (78 F/8; 26° 7' : 89° 28' 30"), earthquake, 1897. H. H. H., M, XXIX, 287.
- Chautapalem (Tsaupapalem), *Nellore* (57 M/16; 15° 13' 30" : 79° 46'), Rajmahal beds. R. B. F., M, XVI, 55.
- Chayal (Chail), *Sirmur* (53 F/5; 30° 55' : 77° 18'), Jutogh overthrust. G. E. P., M, LIII, 24.
- Cheboo (Chhibun), *Banda* (63 G/3; 25° 17' 30" : 81° 12'), Tirhowan limestone. H. B. M., M, II, 14.
- Chebrolu, *Guntur* (65 D/12; 16° 11' 30" : 80° 31'), Rajmahal beds. R. B. F., M, XVI, 78, 107.
- Chedawya, *Toungoo* (94 C/13; 17° 56' 30" : 96° 53' 30"), biotite-g granite. E. L. C., R, LX, 00.
- Chedrang R., *Garo Hills* (78 K/9; 25° 49' : 90° 41'), earthquake, 1897, fault. R. D. O., M, XXIX, 138 (Pls. xiv, xv & xlii).
- Cheerodeeh, *Hazaribagh* (73 E/1; 23° 55' : 85° 12'), Barakar stage, outlier. A. J., M, LII, 24 (fig.).
- Chehiltan range, *Quetta-Pishin* (34 J/16; 30° 3' : 66° 50'), Siwalik beds. R. D. O., R, XXV, 36; Jurassic beds. E. V., R, XXXVIII, 193.
- Chehora hill, *Palamau* (73 A/9; 23° 46' : 84° 36'), Mahadeva-Panchet unconformity. V. B., M, XV, 87.
- Che-hu, *Yunnan* (101 H/4; 24° 9' 30" : 101° 5'), Permo-Triassic beds. J. C. B., R, LIV, 320.
- Chel hill, *Jhelum* (43 H/1; 32° 48' : 73° 5'), Magnesian Sandstone-U. Tertiary, section. A. B. W., M, XIV, 144 (Pl. xv, fig. 18); faceted pebble. H. W., R, XXI, 34 (Pls. iv, v).

- Chel R., *Darjeeling* (78 B/9;  $26^{\circ} 57' : 88^{\circ} 42'$ ), copper-ore. F. R. M., **M**, XI, 78.
- Chela, *Khasi Hills* (78 O/12;  $25^{\circ} 11' : 91^{\circ} 38'$ ), carbonaceous shale. H. B. M., **M**, VII, 164; oil seepage. E. H. P., **M**, XL, 310=Cheyla and Shella.
- Chelgurki, *Bellary* (57 E/4;  $15^{\circ} 7' : 77^{\circ} 8'$ ), hematite. R. B. F., **R**, XIX, 102; XXII, 33.
- Chellumbrum (Chidambaram), S. Arcot (58 M/11;  $11^{\circ} 24' : 79^{\circ} 41'$ ), sand dunes. W. K., **M**, IV, 253.
- Chellumpully (Chelampalle), *Kurnool* (57 E/16;  $15^{\circ} 13' : 77^{\circ} 48'$ ), folding in Gulcheru quartzites. W. K., **M**, VIII, 157 (fig.).
- Chenda, *Ohhindwara* (55 J/16;  $22^{\circ} 12' : 78^{\circ} 51'$ ), coal seam. W. T. B., **R**, XV, 126=Chinda.
- Chendarapatti (Sendarapatti), *Salem* (58 I/11;  $11^{\circ} 26' : 78^{\circ} 31'$ ), iron-smelting. T. H. H., **R**, XXV, 149.
- Chendua, *Singhbhum* (73 F/10;  $22^{\circ} 36' : 85^{\circ} 43'$ ), shales included in trap. J. A. D., **M**, LIV, 137.
- Chendwar, *Hazaribagh* (73 E/5;  $23^{\circ} 57' : 85^{\circ} 26'$ ), geodetic station. R. D. O., **M**, XLII, 221.
- Ch'eng-chiang Fu, *Yunnan* (101 L/14;  $24^{\circ} 40' : 102^{\circ} 55'$ ), copper mines. J. C. B., **M**, XLVII, 105.
- Ch'eng-kung Hsien, *Yunnan* (101 L/13;  $24^{\circ} 53' : 102^{\circ} 47'$ ), M. Carboniferous beds. J. C. B., **R**, XLIV, 100.
- Chenji, *Attock* (43 D/6;  $32^{\circ} 42' : 72^{\circ} 22'$ ), Tertiary mammalia. G. E. P., **R**, XL, 63=Chinji.
- Chennaganpilly (Chennakkapalle), *Kurnool* (57 I/6;  $15^{\circ} 39' 30'' : 78^{\circ} 20' 30''$ ), Narji beds, section. W. K., **M**, VIII, 73.
- Chennimalai, *Coimbatore* (58 E/12;  $11^{\circ} 10' : 77^{\circ} 36'$ ), porphyritic charnockite. T. H. H., **M**, XXVIII, 245.
- Chennoopully, *Kurnool* (57 M/3;  $15^{\circ} 22' 30'' : 79^{\circ} 11'$ ), Bairenkonda quartzites. W. K., **M**, VIII, 223.
- Chen-pien, *Yunnan* (102 A/5;  $23^{\circ} 47' 30'' : 100^{\circ} 15'$ ), dykes in limestone. J. C. B., **R**, LIV, 306.
- Cheog, *Simla* (53 E/8;  $31^{\circ} 4' : 77^{\circ} 19'$ ), Chail-Jaunsar boundary. G. E. P., **M**, LIII, 117.
- Cheolia, *Mandla* (55 N/13;  $22^{\circ} 50' : 80^{\circ} 0'$ ), flint implement. C. S. M., **R**, XLV, 134
- Chepal (Chaupal), *Simla* (53 F/9;  $30^{\circ} 57' : 77^{\circ} 35'$ ), Blaini conglomerate. H. B. M., **M**, III, pt. 2, 41; C. A. M., **R**, X, 210; R. D. O., **R**, XX, 158; G. E. P., **M**, LIII, 40.
- Chepre, *Hazaribagh* (73 I/1;  $23^{\circ} 48' : 86^{\circ} 1'$ ), Talchir beds. T. W. H. H., **M**, VI, 44.
- Chepzi, *Rupshu* (52 L/10;  $32^{\circ} 34' : 78^{\circ} 36' 30''$ ), Permo-Triassic beds. H. H. H., **M**, XXXVI, 93.
- Cher (Chare), *Korea* (64 I/11;  $23^{\circ} 15' : 82^{\circ} 32' 30''$ ), Archæan inlier. L. L. F., **M**, XLI, 162.
- Cherakhan, *Amjhera* (46 N/3;  $22^{\circ} 22' 30'' : 75^{\circ} 7'$ ), Cretaceous fossils. W. T. B., **M**, VI, 210, 296; **R**, V, 89=Chirakhan.



- Cherambadi, *Nilgiri* (58 A/6; 11° 31' : 76° 17'), mica. H. H. H., **M**, XXXIII pt. 2, 17; T. H. H., **M**, XXXIV, 65.
- Cheran, *Garo Hills* (78 K/10; 25° 44' : 90° 42'), earthquake, 1897, change of level. R. D. O., **M**, XXIX, 158.
- Cherat, *Peshawar* (38 O/13; 33° 49' : 71° 53'), Triassic oysters. A. B. W., **R**, X, 128; L. Eocene beds. C. L. G., **R**, XXV, 96.
- Cheriabbarh (Charlabar), *Merwara* (45 K/1; 25° 57' : 74° 12' 30"), graphite. E. H. P., **R**, LVI, 29.
- Cherka, *Rewah* (63 H/8; 24° 5' : 81° 17' 30"), copper-ore. R. D. O., **M**, XXXI, 172.
- Cherla, *Godavari* (65 B/16; 18° 5' : 80° 49'), Pakal beds. W. K., **M**, XVIII, 215.
- Cheroli (Churoli), *Jaipur* (54 B/12; 26° 5' : 76° 35'), Gwalior shales. A. M. H., **M**, XLV, 172.
- Cherrapunji, *Khasi Hills* (78 O/11; 25° 17' : 91° 43'), coalfield. T. O., **M**, I, 140 (figs.), 144; T. D. L., **R**, XXII, 167 (Pl. vii); R. R. S., **M**, XLI, 26; Nummulitic and Cretaceous rocks. H. B. M., **M**, IV, 417; VII, 161, 168; Cachar earthquake, 1869. T. O., **M**, XIX, 18; earthquake, 1897. R. D. O., **M**, XXIX, 272, 318 (Pl. v); amplitude of wave, 82 (fig.); landslips, 116 (Pl. xxx, fig. 1); rotation of objects, 209 (Pl. xxxv); aftershocks. **M**, XXX, 45, 49, 51; rainfall. E. H. P., **M**, XL, 274; molybdenite. W. K. C., **R**, LXIV, 422.
- Cheryedo, *Sibsagar* (83 J/13; 26° 54' 30" : 94° 51'), sub-Himalayan rocks. H. B. M., **M**, IV, 404=Charaido.
- Chetapur Chaena, *Chota Udaipur* (46 F/15; 22° 27' 30" : 73° 53'), limestone. G. V. H., **R**, LIX, 350; manganese-ore, 354.
- Chetauli, *Ranchi* (73 F/5; 22° 49' : 85° 29'), quartzite replacing carbon-phyllite. J. A. D., **M**, LIV, 26.
- Chewai (Chorwan), *Kashmir* (43 J/14; 34° 39' : 74° 54'), Triassic limestone. R. L., **R**, XIV, 3.
- Cheyila, *Khasi Hills* (78 O/12; 25° 11' : 91° 38'), flood, June 1851. T. O., **M**, I, 176=Chela and Shella.
- Chhab, *Attock* (38 O/16; 33° 14' 30" : 71° 54'), reversed fault. E. H. P., **M**, XL, 448.
- Chhabil, *Shahpur* (38 P/15; 32° 29' : 71° 54'), oil seepage. E. H. P., **M**, XL, 434.
- Chhabra, *Tonk* (54 D/14; 24° 39' 30" : 76° 51'), carbonaceous aerolite. W. K. C., **R**, XLIV, 41; J. C. B., **M**, XLIII, 275.
- Chhaohru, *Simla* (53 E/4; 31° 5' : 77° 11' 30"), talc-schist, Chail series. G. E. P., **M**, LIII, 90.
- Chhamb, *Punch* (43 K/5; 33° 51' : 74° 21'), anticline in Gondwanas. D. N. W., **M**, LI, 308.
- Chhammal Mt., *Jhelum* (43 H/2; 32° 42' : 73° 7'), overthrust fault. E. H. P., **R**, LXIII, 137.
- Chhankata, *Singbhum* (73 F/6; 22° 35' : 85° 27'), dam-site. E. H. P., **R**, LIX, 25.
- Chhanwara, *Bhopal* (55 E/7; 23° 23' : 77° 15' 30"), laterite. C. S. F., **M**, XLIX, 108.

- Chhaosa, *Simla* (53 E/4; 31° 0' : 77° 3'), Simla slates. E. H. P., **R**, LXII, 166.
- Chhapra (N.), *Idar* (45 H/4; 24° 1' : 73° 10'), Delhi quartzite. C. S. M., **M**, XLIV, 82.
- Chhapra (S.), *Idar* (46 E/2; 23° 44' : 73° 7' 30'), quartz-porphyry. C. S. M., **M**, XLIV, 84, 126.
- Chhapra (Bara), *Jubbulpore* (64 A/2; 23° 36' : 80° 14'), pyrolusite. P. N. B., **R**, XXI, 86; bauxite. C. S. F., **M**, XLIX, 114.
- Chhapra (Chota), *Jubbulpore* (64 A/2; 23° 31' 30' : 80° 10' 30'), manganese-ore. P. N. B., **R**, XXI, 84.
- Chhapri, *Patiala* (54 A/1; 27° 56' : 76° 6'), iron-ore. P. N. B., **R**, XXXIII, 57.
- Chharabra, *Simla* (53 E/4; 31° 7' : 77° 15'), Chail limestone. G. E. P., **M**, LIII, 115.
- Chharah, *Rawalpindi* (43 G/6; 33° 38' 30" : 73° 17'), U. Murree beds. D. N. W., **M**, LI, 348.
- Chharat, *Attock* (43 C/10; 33° 35' : 72° 33'), oil seepages. H. H. H., **R**, XLIV, 22; E. H. P., **M**, XL, 379; Nummulitic-Murree series, section. E. S. P., **R**, XLIX, 142 (Pl. v).
- Chhatak, *Sylhet* (78 O/12; 25° 2' : 91° 40'), earthquake, 1897. R. D. O., **M**, XXIX, 318; rotation of obelisk, 208 (frontispiece & Pl. xxxv)=Chattuc.
- Chhatrasingara Kotai, *Ramnad* (58 J/8; 10° 6' 30" : 78° 30'), lateritic beds. R. B. F., **M**, XX, 47.
- Chhatreri, *Punch* (43 G/14; 33° 39' 30" : 73° 57'), L. Siwalik, boundary. D. N. W., **M**, LI, 331.
- Chhawan, *Rawalpindi* (43 G/6; 33° 44' 30" : 73° 24' 30"), Kamliak stage, L. Siwalik. D. N. W., **M**, LI, 282.
- Chhawara, *Nagpur* (55 O/6; 21° 38' : 79° 27'), dolomitic marble, Bichua stage. L. L. F., **R**, LXV, 103.
- Chhindboh, *Chhindwara* (55 K/13; 21° 49' 30" : 78° 45'), fault-breccia. E. H. P., **R**, LX, 92, 94.
- Chhindewani, *Nagpur* (55 K/14; 21° 35' : 78° 55' 30"), pegmatite. E. H. P., **R**, LVIII, 55.
- Chhindwara, *Central Provs.* (55 J/16; 22° 3' : 78° 56'), porphyritic granite. H. H. H., **R**, XLIV, 34; water-supply. E. H. P., **R**, LVIII, 34.
- Chhob, *Patiala* (53 F/1; 30° 56' : 77° 11'), Blaini series, section. G. E. P., **M**, LIII, 19.
- Chhota Bankou, *Singhbhum* (73 F/10; 22° 34' : 85° 39'), gabbroidal dolerite. J. A. D., **M**, LIV, 137.
- Chhota Gado, *Manbhum* (73 I/4; 23° 5' : 86° 15'), kyanite-rock. J. A. D., **M**, LII, 213.
- Chhota Kazi Nag, *Kashmir* (43 F/16; 34° 9' : 73° 57'), Salkhala series. D. N. W., **R**, LXV, 198.
- Chhota Simla, *Simla* (53 E/4; 31° 5' : 77° 11'), talc-schist, Chail series. G. E. P., **M**, LIII, 90.
- Chhota Udepur, *Rewa Kantha* (46 J/3; 22° 18' : 74° 1'), mica. T. H. H., **M**, XXXIV, 53; marble. G. V. H., **R**, LIX, 355=Chota Oodipoor.
- Chhoti Sadri, *Mewar* (45 L/11; 24° 23' : 74° 42' 30"), Delhi shales. C. A. H., **R**, XIV, 293.

- Chhuri, *Bilaspur* (64 J/11; 22° 29' : 82° 37'), Talchir beds. W. K., **R**, XVIII, 192.
- Chiang-liang-tzu, *Yunnan* (102 A/12; 23° 3' : 100° 32'), Triassic beds. J. C. B., **R**, LIV, 314.
- Chichali pass, *Mianwali* (38 O/8; 33° 1' : 71° 24') Jurassic-U. Tertiary, section. A. B. W., **M**, XIV, 275 (Pl. xxxi, fig. 55); XVII, 256 (Pl. vii, fig. 3); alum works XIV, 301; gorge. XVII, 222 (Pl. iv); proposed dam. H. H. H., **R**, XLVIII, 13; Cretaceous ammonite. E. H. P., **M**, XL, 342.
- Chicholi, *Betul* (55 F/12; 22° 1' : 77° 40'), grits and conglomerates, ? Lameta. H. H. H., **R**, XLVII, 36.
- Chicholi, *Chhindwara* (55 K/11; 21° 30' : 78° 42'), zeolites. E. H. P., **R**, LX, 93.
- Chicholi, *Nandgaon* (64 C/12; 21° 4' : 80° 40' 30'), lead and fluorite. T. O., **R**, I, 37; II, 101. W. T. B., **R**, III, 44; V. B., **R**, X, 185; L. L. F., **R**, I, 282, 289.
- Chicholi, *Yeotmal* (56 M/1; 19° 54' : 79° 6'), coalfield. R. R. S., **M**, XLI, 89.
- Chichuldoh, *Seoni* (55 O/9; 21° 46' : 79° 41'), manganese-ore. H. H. H., **R**, XLIV, 21.
- Chidamu, *Almora* (62 B/2; 30° 42' : 80° 10'), Rhætic-Jurassic syncline. C. I. G., **M**, XXIII, 172 (Pl. ii); Lias (?). C. D., **M**, XXXVI, 303.
- Chidamulla, *Warangal* (65 C/6; 17° 36' : 80° 21'), crystalline limestone. W. K., **M**, XVIII, 214.
- Chideru, *Mianwali* (38 P/14; 32° 33' : 71° 46' 30"), Salt Marl-Trias, sections. A. B. W., **M**, XIV, 247; position of Salt Marl. C. S. M., **R**, XXIV, 35 (Pl. iii, fig. 10) passage from Productus Limestone to Trias. F. N., **A. R.**, 1900, 179; C. D., **M**, XXXVI, 236.
- Chiengmai, *Siam* (94 N/1; 18° 47' : 99° 0'), Burma earthquakes, 1912. J. C. B., **M**, XLII, 76, 78, 122; Pegu earthquake, 1930. **R**, LXV, 246.
- Chigar, *Ladakh* (52 J/4; 34° 4' 30" : 78° 4'), hot spring. R. L., **M**, XXII, 44; T. O., **M**, XIX, 126.
- Chiggateri, *Bellary* (57 B/1; 14° 49' : 76° 5'), alluvial gold. R. B. F., **M**, XXV, 89, 196; J. M. M., **R**, XXXIV, 119.
- Ch'ih-lu-shu, *Yunnan* (102 A/1; 23° 49' : 100° 7'), granite. J. C. B., **R**, LIV, 305.
- Chi-i-p'u, *Yunnan* (101 C/2; 25° 35' : 100° 4'), mica-schist. J. C. B., **R**, XLVII, 241.
- Chik Magalur, *Kadur* (48 O/15; 13° 19' : 75° 46' 30"), basement beds, Dharwar. R. B. F., **R**, XXI, 48.
- Chik Vadvati, *Sangli* (48 M/12; 15° 10' : 75° 43' 30"), manganese-ore. J. M. M., **R**, XXXIV, 128; L. L. F., **M**, XXXVII, 644.
- Chikara, *Chhindwara* (55 K/14; 21° 39' : 78° 59'), effects of thrust-faulting. E. H. P., **R**, LIII, 24.
- Chikara, *Tonk* (45 L/6; 24° 36' : 74° 25'), galena. C. S. M., **R**, XLV, 122.
- Chikdauli, *Belgaum* (47 L/16; 16° 11' 30" : 74° 52'), ossiferous clays. R. B. F., **M**, XII, 232.
- Chikeli Drug (Chakkili Durgam), *N. Arcot* (57 P/1; 12° 47' : 79° 10'), inclusions in gneiss. R. B. F., **R**, XII, 192.
- Chikhla, *Balaghat* (55 O/14; 21° 41' : 79° 54' 30"), manganese-ore. L. L. F., **M**, XXXVII, 750.

- Chikhla, *Bhandara* (55 O/14;  $21^{\circ} 33' : 79^{\circ} 46'$ ), ottrelite. L. L. F., **M**, XXXVII, 200; sapphirine (?), 217; manganese-ore, 755; braunite, assay. G. S. L., **R**, XXVII, 111.
- Chikhli (N.), *Chhindwara* (55 J/12;  $22^{\circ} 13' : 78^{\circ} 45'$ ), colliery, analyses of coal. G. V. H., **R**, LIX, 174.
- Chikhli (S.), *Chhindwara* (55 K/13;  $21^{\circ} 55' 30'' : 78^{\circ} 54'$ ), basal flow, Deccan trap. L. L. F., **R**, XLVII, 92; syncline, 108.
- Chikhli, *Satara* (47 G/9;  $17^{\circ} 52' : 73^{\circ} 40' 30''$ ), manganese-ore. L. L. F., **M**, XXXVII, 502, 666.
- Chikiala, *Chanda* (56 M/16;  $19^{\circ} 3' : 79^{\circ} 56'$ ), sandstones. W. K., **R**, X, 62; **M**, XVIII, 291; T. W. H. H., **R**, XI, 29.
- Chikka Bennur, *Shimoga* (48 N/16;  $14^{\circ} 10' : 75^{\circ} 59'$ ), mica. T. H. H., **M**, XXXIV, 68.
- Chikkim, *Spiti* (52 H/15;  $32^{\circ} 21' : 77^{\circ} 59' 30''$ ), Cretaceous limestone. F. S., **M**, V, 117; H. H. H., **M**, XXXVI, 86; foraminifera. A. S., **R**, XLIV, 214 (figs.).
- Chikli, *Chota Udaipur* (46 J/4;  $22^{\circ} 1' : 74^{\circ} 5'$ ), volcanic ash beds. W. T. B., **M**, VI, 327; Cretaceous fossils, 331; P. N. B., **M**, XXI, 31.
- Chikmara, *Balaghat* (55 O/14;  $21^{\circ} 44' : 79^{\circ} 47'$ ), rhodonite. L. L. F., **M**, XXXVII, 141; dannemorite (?), 148; manganese-ore, 713.
- Chiknagul, *Sylhet* (78 P/13;  $24^{\circ} 57' : 91^{\circ} 59' 30''$ ), earthquake, 1897, river changes. R. D. O., **M**, XXXIX, 344.
- Chiknayakanhalli, *Tumkur* (57 C/11;  $13^{\circ} 25' : 76^{\circ} 37' 30''$ ), Dharwar schist band. R. B. F., **R**, XV, 194; goldfield. XXI, 54; manganese-ore. L. L. F., **M**, XXXVII, 1152.
- Chikori, *Belgaum* (47 L/11;  $16^{\circ} 26' : 74^{\circ} 35'$ ), trap flows. R. B. F., **M**, XII, 178.
- Chikulda, *Amraoti* (55 G/7;  $21^{\circ} 24' : 77^{\circ} 19'$ ), water-supply. A. B. W., **R**, II, 3; laterite, 5; W. T. B., **M**, VI, 283 (Pl. v).
- Chilab R., *Russian Turkestan* (42 G/15;  $37^{\circ} 22' : 73^{\circ} 58'$ ), limestone, Wakhan series. H. H. H., **R**, XLV, 311.
- Chilarwat, *Chota Udaipur* (46 F/15;  $22^{\circ} 22' : 73^{\circ} 59'$ ), biotite-gneiss. G. V. H., **R**, LIX, 351.
- Chilgo, *Santal Parganas* (72 P/6;  $24^{\circ} 33' : 87^{\circ} 28'$ ), kaolin. M. S., **R**, XXXVIII, 136; fire-clay, 142.
- Chilka Lake, *Orissa* (74 E/N. W.;  $19^{\circ} 45' : 85^{\circ} 20'$ ), description. W. T. B., **M**, I, 251; marine shells, 275; monazite. G. H. T., **R**, XLIV, 195.
- Chilkamari, *Mahbubnagar* (56 K/4;  $17^{\circ} 10' : 78^{\circ} 4'$ ), Lameta beds. E. H. P., **R**, LV, 40.
- Chillingkhak pass, *Afghanistan* (29 F/15;  $34^{\circ} 16' : 61^{\circ} 50'$ ), Carboniferous rocks. C. L. G., **R**, XIX, 51.
- Chilpi Ghat, *Kawardha* (64 F/4;  $22^{\circ} 10' : 81^{\circ} 4'$ ), section. W. K., **R**, XVIII, 178, 187.
- Chimakurti Mt., *Guntur* (57 M/14;  $15^{\circ} 37' : 79^{\circ} 50'$ ), granitoid gneiss. R. B. F., **M**, XVI, 10, 34; quartzite bands, 21.
- Chimi, *Naga Hills* (83 K/13;  $25^{\circ} 55' : 94^{\circ} 56'$ ), conglomerate, Disang series. E. H. P., **R**, XLII, 261.

- Chimpaba (Champabaha), *Ranchi* (73 F/1; 22° 52' 30" : 85° 8' 30"), epidotised granite. L. A. N., **R**, LXV, 499 (Pl. xxv, fig. 1).
- China, *Khyber* (38 O/1; 34° 0' : 71° 4'), Permo-Carboniferous fossils. H. H. H., **M**, XXVIII, 111, 113.
- Chinakuri, *Burdwan* (73 I/14; 23° 41' : 86° 51' 30"), colliery, method of working. W. T. B., **M**, III, 165.
- Chinamarg Gali, *Punch* (43 K/5; 33° 53' : 74° 24'), Panjal volcanic rocks. D. N. W., **M**, LI, 308.
- Chin-an-so, *Yunnan* (92 L/14; 24° 42' : 98° 49'), granite. J. C. B., **R**, XLVII, 218.
- Chinar Rahdar, *Persia* (17 C/6; 29° 37' 30" : 52° 26'), Eocene-Miocene section. G. E. P., **M**, XXXIV, pt. 4, 72.
- Chinbyit, *L. Chindwin* (84 J/12; 22° 2' : 94° 42'), *Metamynodon*. E. H. P., **R**, LXII, 26.
- Chin-chiang-kai, *Yunnan* (101 B/12; 26° 13' 30" : 100° 35'), Permo-Carboniferous fossils. J. C. B., **R**, LIV, 325.
- Chinchlee, *Kolhapur* (47 L/14; 16° 34' : 74° 49'), saltpetre. H. C. J., **R**, LIV, 430.
- Chinchuria, *Burdwan* (73 I/14; 23° 44' 30" : 86° 58'), coal seam. R. R. S., **M**, XLI, 45, 47.
- Chinda, *Chhindwara* (55 J/16; 22° 12' : 78° 51'), coal seam. R. R. S., **M**, XLI, 94=Chenda.
- Chindamani, *Jubbulpore* (55 M/15; 23° 21' : 79° 58'), pyrolusite. P. N. B., **R**, XXI, 86.
- Chindaung, *L. Chindwin* (84 J/16; 22° 14' 30" : 94° 57'), olivine-basalt and granite. E. H. P., **R**, LXI, 107.
- Chineni, *Jammu* (43 O/8; 33° 2' : 75° 16' 30"), Siwalik beds. H. B. M., **R**, IX, 53=Chaneni.
- Chingam pass, *Kashmir* (43 O/10; 33° 35' : 75° 31'), recent fault. R. D. O., **R**, XXI, 158.
- Chingan, *Naga Hills* (83 J/13; 26° 47' : 94° 50'), coal seams. R. R. S., **R**, XXXIV, 215; oil seepages. E. H. P., **M**, XL, 287.
- Ching-hua-tung, *Yunnan* (101 C/11; 25° 27' : 100° 33'), Permian fossils. J. C. B., **R**, LIV, 75.
- Chingo, *Rewah* (63 L/11; 24° 15' 30" : 82° 32'), quartz-schist. E. V., **M**, XXXI, 59.
- Ching-tung T'ing, *Yunnan* 101 D/15; 24° 27' : 100° 53' 30"), iron-ore. J. C. B., **M**, XLVII, 95; recent conglomerate. **R**, LIV, 320.
- Chini, *Bashahr* (53 I/6°; 31° 32' : 78° 15'), 'central gneiss'. C. A. M., **R**, X, 221.
- Chiniot, *Jhang* (44 A/14; 31° 43' : 72° 59'), tuffs and agglomerates. A. M. H., **R**, XLIII, 233; Eocene shore line. E. H. P., **M**, XL, 452, 455.
- Chinjan, *Loralai* (34 N/14; 30° 34' : 67° 53'), Triassic ammonite. C. D., **R**, XXXIV, 17 (Pl. iii, fig. 4).
- Chinji, *Attock* (43 D/6 32° 42' : 72° 22'), L. Siwalik fauna. G. E. P., **R**, XLIII, 307; XLIV, 267; XLV, 9, 25, 145; *Lamellidens*. B. P., **R**, LXIII, 432, (Pl. xix, figs. 12, 13)=Chenji.

- Chinmar, *Rewah* (64 E/15; 23° 21' : 81° 53' 30"), coal seam. T. W. H. H., **M**, XXI, 192, 238.
- Chinna Ganjam, *Guntur* (66 A/2; 15° 42' : 80° 14' 30"), sand dunes. R. B. F., **M**, XVI, 100.
- Chinna Latarapy, *Nellore* (57 M/16; 15° 1' 30" : 79° 51' 30"), Rajmahal beds. R. B. F., **M**, XVI, 51.
- Chinna Managundum, *Nellore* (57 M/6; 15° 33' : 79° 24'), talcose schists. R. B. F., **M**, XVI, 22.
- Chinna Ranyam, *Vizagapatam* (65 N/7; 18° 21' : 83° 27'), manganese-ore. L. L. F., **M**, XXXVII, 463, 1048.
- Chinna Tripeddy (Tiruppati), *S. Arcot* (58 I/14; 11° 43' : 78° 48'), iron-ore. W. K., **M**, IV, 293.
- Chinna Vungarum, *Trichinopoly* (58 J/9; 10° 58' : 78° 44' 30"), inclusion of gneiss in granite. W. K., **M**, IV, 341.
- Chin-ning Chou, *Yunnan* (101 L/14; 24° 41' : 102° 45'), M. Carboniferous beds. J. C. B., **R**, XLIV, 100.
- Chinsurah, *Hooghly* (79 B/5; 22° 54' : 88° 24'), earthquakes: Calcutta, 1906, C. S. M., **R**, XXXVI, 222; Srimangal, 1918. M. S., **M**, XLVI, 27.
- Chintacoonta, *Chittoor* (57 O/2; 13° 44' : 79° 11'), ferruginous quartzites. W. K., **M**, VIII, 180.
- Chintalpudi, *Godavari* (65 C/16; 17° 4' : 80° 59'), Kamthi sandstones. W. T. B., **R**, V, 26; W. K., **R**, X, 59; **M**, XVI, 209; XVIII, 265.
- Chintamanpully (Chintammipalle), *Anantapur* (57 E/16; 15° 2' : 77° 58'), trap dykes. W. K., **M**, VIII, 199.
- Chintapilly, *Guntur* (65 D/2; 16° 41' 30" : 80° 8' 30"), Kurnool series, section. R. B. F., **M**, VIII, 297 (Pl. viii, fig. 2).
- Chintelavalsa, *Vizagapatam* (65 N/3; 18° 25' : 83° 14'), manganese-pyroxenes, L. L. F., **M**, XXXVII, 137, 252; rhodonite, 141, 144; manganese-garnet, 180; graphite, 211; kodurite, 245-49, 1113 (fig.).
- Chin-tsai-tang, *Yunnan* (92 K/12; 25° 2' : 98° 35' 30"), andesites. J. C. B., **R**, XLIII, 197.
- Chintulcheroo (Chintalacheruvu), *Kurnool* (57 J/9; 14° 58' : 78° 38'), iron-smelting. W. K., **M**, VIII, 280.
- Chinuagi, Chin-na-gyee, *Henzada* (85 N/3; 18° 27' : 95° 3'), Axial-Nummulitic series, boundary. W. T., **R**, IV, 39; V, 81.
- Chinur, *Adilabad* (56 N/13; 18° 52' 30" : 79° 48'), Barakar beds. T. W. H. H., **R**, XI, 21; W. K., **M**, XVIII, 183; Talchir beds, 241; R. R. S., **M**, XLI, 99.
- Chiote, *Spiti* (52 H/15; 32° 26' 30" : 77° 54'), *Dicerocardium*. F. S., **M**, V, 64 = Kioto.
- Chipagiri, *Garro Hills* (78 K/2; 25° 35' : 90° 14'), coal measures, Cretaceous. H. B. M., **R**, VII, 60; R. R. S., **M**, XLI, 25.
- Chipalto, *Bundi* (45 O/14; 25° 34' : 75° 59'), fault. A. L. C., **R**, LX, 187.
- Chiplata, *Jaipur* (45 M/14; 27° 34' : 75° 50'), passage beds, Alwar-Ajabgarh series. A. M. H., **R**, LIV, 364.
- Chiplun, *Ratnagiri* (47 G/10; 17° 32' : 73° 31'), laterite. C. S. F., **M**, XLIX, 94.

- Chipurapalli, *Vizagapatam* (65 N/11; 18° 18' 30" : 83° 34'), manganese-ore. L. L. F., **M**, XXXVII, 462-3, 1043.
- Chipurmatti (Shiparmatti), *Bijapur* (47 P/8; 16° 4' 30" : 75° 26'), limestone breccia, Kaladgi series. R. B. F., **M**, XII, 126.
- Chipwe Hka, *Myitkyina* (92 K/1; 25° 55' : 98° 8'), granite-gneiss. M. S., **R**, LIV, 406.
- Chirakoon (Chirai Khurd), *Surguja* (64 I/13; 23° 54' : 82° 50'), lead-ore. F. R. M., **R**, V, 23; L. L. F., **R**, L, 289.
- Chirakhan, *Amjhera* (46 N/3; 22° 22' 30" : 75° 7'), Nimar sandstone. P. N. B., **M**, XXI, 24; Cretaceous marl, 39=Cherakhan.
- Chirakhan, *Hoshangabad* (55 B/15; 22° 26' : 76° 52'), Bijawar sandstone. P. N. B., **M**, XXI, 70.
- Chirakunt, *Adilabad* (56 M/7; 19° 18' 30" : 79° 16'), Maleri plants. T. W. H. H., **R**, XI, 27; W. K., **R**, XIII, 23; **M**, XVIII, 280; E. H. P., **R**, LXII, 28.
- Chiranhalli, *Kadur* (57 C/1; 13° 51' : 76° 1'), Dharwar schists, gold. R. B. F., **R**, XXI, 48.
- Chirchun, *Almora* (62 B/2; 30° 42' : 80° 10'), flysch beds and exotic blocks. A. K., **M**, XXXII, 163, 166, 180 (Pls. ii-xiv)=Chitichun.
- Chirmiri, *Korea* (64 I/8; 23° 10' : 82° 21'), 'para-lavas'. L. L. F., **M**, XLI, 158; sun-cracks, 175 (Pl. xxv, fig. 1); coal seams, 200, 209, 225; 'para-lavas'. H. H. H., **R**, L, 8.
- Chiro, *Punch* (43 K/3; 33° 28' : 74° 7'), Eocene, section. D. N. W., **M**, LI, 324.
- Chirubera, *Singhbhum* (73 F/10; 22° 38' : 85° 37' 30"), epidiorite in shales. J. A. D., **M**, LII, 248; LIV, 36, 86.
- Chisgarh, *Bhandara* (64 D/5; 20° 54' : 80° 23'), Sakoli beds. V. B., **R**, X, 181.
- Chitadongri, *Balaghat* (64 B/8; 22° 8' : 80° 28'), mica. T. H. H., **M**, XXXIV, 55.
- Chitaili, *Almora* (53 O/5; 29° 49' : 79° 21'), roofing slates. A. W. L., **R**, II, 89=Chiteli.
- Chitajhor, *Korea* (64 I/8; 23° 14' : 82° 20' 30"), coal seam. T. W. H. H., **M**, XXI, 238; L. L. F., **M**, XLI, 207.
- Chitaldrug, *Mysore* (57 B/8; 14° 13' : 76° 24'), silver-lead ore. R. B. F., **R**, XXII, 23.
- Chitapahar hills, *Attock* (43 C/2; 33° 43' : 72° 10'), high-level gravels. W. T., **R**, XIII, 222; A. B. W., **R**, XIV, 153.
- Chitapur, *Bastar* (65 F/13; 18° 56' 30" : 81° 50'), Vindhyan limestone. V. R., **R**, X, 180.
- Chitapurn, *Kistna* (65 D/13; 16° 56' : 80° 52'), iron-smelting. W. T. B., **R**, V, 26.
- Chiteli (Jaitoli), *Almora* (53 O/5; 29° 49' : 79° 21'), roofing slates. T. W. H. H., **R**, III, 43=Chitaili.
- Chiterkot, *Bastar* (65 E/12; 19° 12' : 81° 43'), basal beds, L. Vindhyan. P. N. B., **A. R.**, 1900, 41.
- Chithra, *Udaipur*, C. P. (64 N/3; 22° 20' : 83° 6'), coal seam. V. B., **R**, XV, 118=Chitra.
- Chithoda, *Idar* (46 E/5; 23° 55' : 73° 19' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 86.

- Chitichun, *Almora* (62 B/2; 30° 42' : 80° 10'), 'exotic blocks'. C. L. G., **R**, XXVI, 22 (Pls. i, ii); C. D., **M**, XXVIII, 3. Muschelkalk fauna. **M**, XXXVI 334; Dachsteinkalk, 339=Chirchun.
- Chitor, *Mewar* (45 L/9; 24° 53' : 74° 39'), L. Vindhyan beds. C. A. H., **R**, XIV, 292; granitic gneiss, 299=Chittorgarh.
- Chitpat, *N. Arcot* (57 P/7; 12° 28' : 79° 21'), gneiss. R. B. F., **R**, XII, 188; building stone, 207.
- Chitra, *Udaipur*, C. P. (64 N/3; 22° 20' : 83° 6'), coal seams. W. T. B., **M**, III, 71=Chithra.
- Chitrail (Chhitrel), *Jaisalmer* (40 J/9; 26° 59' : 70° 44'), ferruginous and calcareous sandstones. W. T. B., **R**, X, 16.
- Chitral, *N. W. F. Prov.* (38 M/13; 35° 50' : 71° 46'), Tertiary beds. H. H. H., **R**, XLV, 280; earthquake, May, 1912. J. C. B., **M**, XLII, 75 (note).
- Chitrals, *Chamba* (52 D/7; 32° 27' : 76° 23'), Blaini conglomerate. C. A. M., **R**, XVI, 38.
- Chitrore, *Cutch* (41 I/11; 23° 24' 30" : 70° 40'), gypsum. A. B. W., **M**, IX, 90.
- Chitrori, *Idar* (46 A/13; 23° 46' : 72° 49' 30"), Idar granite. C. S. M., **M**, XLIV, 117.
- Chitrun, *Ladakh* (43 M/6; 35° 42' : 75° 25'), hot spring. R. L., **M**, XXII, 43; travertine, 48=Chutran.
- Chittagong, *Bengal* (79 N/15; 22° 20' : 91° 56'), water-supply. T. D. L., **R**, XL, 105; lignite. R. R. S., **M**, XLI, 37; earthquakes: 1762. F. M. B., **M**, XXXV, 176; Assam, 1897. R. D. O., **M**, XXIX, 30, 300; time record, 64, 71; Srimangal, 1918; M. S., **M**, XLVI, 27.
- Chittanur, *S. Arcot* (58 M/5; 11° 59' : 79° 16' 30"), inclusions of schist in granitoid gneiss. W. K., **M**, IV, 300 (fig.).
- Chittapuram, *Chittoor* (57 O/12; 13° 11' : 79° 44'), Sripermatour beds, section. R. B. F., **R**, XI, 253; plants. XII, 200.
- Chitthi, *Jhelum* (43 H/6; 32° 40' : 73° 23'), Salt Marl beds. E. H. P., **R**, LXIII, 136.
- Chittidand, *Jhelum* (43 D/14; 32° 41' : 72° 54'), aluminite. R. D. O., **R**, XXX, 110; analysis. G. S. L., **A. R.**, 1898, 4.
- Chittimitti, *Singhbhum* (73 F/10; 22° 35' : 85° 42'), shales included in trap. J. A. D., **M**, LIV, 137.
- Chittorgarh, *Mewar* (45 L/9; 24° 53' : 74° 39'), Vindhyan boundary. H. B. M., **R**, I, 70=Chitor.
- Chitung Buru, *Singhbhum* (73 F/10; 22° 30' 30" : 85° 39'), serpentine. V. B., **M**, XVIII, 129; iron-ore, 147; chromite. H. H. H., **R**, L, 10.
- Chiu-kai, *Yunnan* (92 K/15; 25° 18' 30" : 98° 49'), mica-schist. J. C. B., **R**, XLVII, 247.
- Chiu-ya-p'ing, *Yunnan* (101 F/2; 26° 38' : 101° 13'), coalfield. J. C. B., **M**, XLVII, 68; **R**, LIV, 330.
- Choah Saidan Shah, *Jhelum* (43 D/14; 32° 43' : 72° 59'), *Conularia* bed. R. D. O., **R**, XIX, 128=Choya-Saidan-Shah.
- Choari, *Chamba* (52 D/3; 32° 25' : 76° 1'), Himalayan series, section. H. B. M., **M**, III, pt. 2, 63 (fig.)=Chuari.
- Choarigarh, *Narsinghpur* (55 J/13; 22° 45' : 78° 55'), Mahadeva conglomerate. J. G. M., **M**, II, 187=Chaorigarh.



- Chobaree, *Cutch* (41 I/6; 23° 31' : 70° 20'), sub-nummulitic beds, section. A. B. W., **M**, IX, 129.
- Chobu, *Tibet* (71 L/15; 28° 18' : 86° 50'), altered limestone. A. M. H., **R**, LIV, 222.
- Chocha, *Jeypore* (65 I/6; 19° 39' : 82° 26'), Cuddapah outlier. T. L. W., **A. R.**, 1901, 15.
- Chochalja, *Garo Hills* (78 K/13; 25° 54' : 90° 53'), earthquake, 1897, ponding of stream. R. D. O., **M**, XXIX, 121.
- Chodzung, *Tibet* (71 L/15; 28° 18' : 86° 53'), Permo-Triassic limestone. A. M. H., **R**, LIV, 223.
- Choha Khalsa, *Rawalpindi* (43 G/7; 33° 25' : 73° 29'), Siwalik anticline. D. N. W., **M**, LI, 361.
- Choi, *Attock* (43 C/2; 33° 43' 30" : 72° 13'), coal exploration. G. F. Scott, **R**, XVII, 73 (Pl. iv); R. R. S., **M**, XLI, 112.
- Chokanandapuram (Chokkanathapuram), *Trichinopoly* (58 M/3; 11° 16' : 79° 7' 30"), *Orbitoides*. E. V., **R**, XXXVI, 190.
- Chokdinjan Chu, *Bashahr* (53 I/5; 31° 50' : 78° 20'), Cambro-Silurian unconformity. H. H. H., **M**, XXXVI, 23.
- Choki La, *Ladakh* (52 F/4; 34° 9' : 77° 1'), Carboniferous shales. R. L., **R**, XIII, 47.
- Chokidanga, *Burdwan* (73 M/2; 23° 40' 30" : 87° 8' 30"), Raniganj beds, section. W. T. B., **M**, III, 81.
- Chokkampulli, *Kolar* (57 G/14; 13° 41' : 77° 53'), mica. T. H. H., **M**, XXXIV, 68.
- Chokkarapalem (Sokarapalem), *Vizagapatam* (65 N/11; 18° 19' : 83° 42'), manganese-ore. L. L. F., **M**, XXXVII, 463, 1048.
- Cholady (Cholatipuzha), *Wynaad* (58 A/2; 11° 34' : 76° 14'), auriferous reef. W. K., **R**, VIII, 34.
- Cholemsen, *Naga Hills* (83 J/7; 26° 26' : 94° 25' 30"), thrust-plane. H. H. H., **R**, XL, 292.
- Chomi, *Naga Hills* (83 K/13; 25° 51' : 94° 50' 30"), quartz veins in Disang series. E. H. P., **R**, XLII, 258.
- Chomolhari, *Tibet* (78 E/5; 27° 50' : 89° 18'), granite and gneiss. H. H. H., **M**, XXXVI, 126, 140, 183; moraines, 136=Chumolhari.
- Chomoyumo, *Sikkim* (77 D/12; 28° 2' : 88° 33'), moraines. H. H. H., **M**, XXXVI, 135; crystalline rocks, 140, 151-154.
- Chondrai, *Jodhpur* (45 C/15; 25° 26' : 72° 56'), granite. T. D. L., **M**, XXXV, 68.
- Chong Kumdan glacier, *Ladakh* (52 E/12; 35° 14' : 77° 30'), condition in 1909. D. G. O., **R**, XL, 346; movements of snout. K. M., **R**, LXIII, 268 (Pl. vii, 29).
- Chongo, *Ladakh* (43 M/10; 35° 41' : 75° 44' 30"), hot spring. R. L., **R**, XIV, 54; **M**, XXII, 43, 48; T. O., **M**, XIX, 125.
- Chonkam, *Mishmi Hills* (92 A/1; 27° 48' : 96° 2'), alluvial gold. J. M. M., **R**, XXXI, 221.
- Choolkhan, *Nimar* (55 C/7; 21° 23' 30" : 76° 16'), Infra-trappean limestone. W. T. B., **M**, VI, 287.

- Chootooa, R., *Hazaribagh* (73 E/9; 23° 49' : 85° 34'), coal seams. T. W. H. H., **M**, VI, 75.
- Chope, *Hazaribagh* (72 H/4; 24° 2' : 85° 13' 30'), coalfield. V. B., **M**, VIII, 347 (Pl. iv); R. R. S., **M**, XLI, 57.
- Chopra, *Bijawar* (54 P/10; 24° 31' 30" : 79° 36' 30"), Bijawar rocks. H. B. M., **M**, II, 43; Palkua series. E. V., **R**, XXXIII, 270.
- Chor (Chaur) Mt., *Simla* (53 F/5; 30° 52' : 77° 29'), structure. H. B. M., **M**, III, pt. 2, 40, 45 (fig.); G. E. P., **M**, LIII, 51 (figs.); 'central gneiss'. F. S., **M**, V, 16; granite, petrology. C. A. M., **R**, XVII, 61; dolerite. XX, 112; Mandhali beds. R. D. O., **R**, XX, 158.
- Chor Hoti pass, *Garhwal* (53 N/13; 30° 48' : 79° 54'), Silurian-Carboniferous, section. C. L. G., **M**, XXIII, 106 (Pl. iii, fig. 3).
- Chora, *Burdwan* (73 M/2; 23° 40' : 87° 12'), coal seam. R. R. S., **M**, XII, 46.
- Chora, *Bashahr* (53 E/14; 31° 34' : 77° 51'), gneissose granite. C. A. M., **R**, XVII, 58, 60.
- Choradi, *Shimoga* (48 N/8; 14° 4' : 75° 21'), manganese-ore. L. L. F., **M**, XXXVII, 1139.
- Choran, *Bundi* (45 O/11; 25° 29' : 75° 31'), U. Vindhyan, section. A. L. C., **R**, LX, 174.
- Chorar I., *Cutch* (41 M/1; 23° 51' : 71° 12'), geology. A. B. W., **M**, IX, 117.
- Chorbaoli, *Nagpur* (55 O/7; 21° 28' : 79° 19'), manganese-ore. L. L. F., **M**, XXXVII, 974.
- Chorgali, *Attock* (43 C/11; 33° 26' : 72° 41'), Nummulitic series. A. B. W., **R**, X, 118; E. S. P., **R**, XLIX, 149; E. H. P., **M**, XL, 346, 400.
- Chorgalia, *Naini Tal* (53 O/12; 29° 7' : 79° 42'), Nahar plants. C. S. M., **M**, XXIV, 158 (note).
- Chorimal, *Idar* (46 E/5; 23° 52' 30" : 73° 19'), Delhi quartzite. C. S. M., **M**, XLIV, 94.
- Chorivad, *Idar* (46 E/1; 23° 54' : 73° 7' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 79, 80.
- Chorkheri, *Nagpur* (55 K/11; 21° 27' 30" : 78° 41'), inlier of Kamthi beds. W. T. B., **M**, IX, 313.
- Chorlakki, *Kohat* (38 O/14; 33° 35' 30" : 71° 56' 30"), sulphur pits. E. H. P., **M**, XL, 411, oil seepage, 412.
- Chorle (Chulera Landi), *Larkhana* (35 N/12; 26° 8' : 67° 44'), Nari-Khirthar boundary. W. T. B., **M**, XVII, 117.
- Chorna, *Sirmur* (53 F/5; 30° 46' 30" : 77° 28'), crystalline limestone. H. B. M., **M**, III, pt. 2, 44.
- Chornai R., *Bilaspur* (64 J/14; 22° 44' : 82° 50'), coal seam. R. R. S., **M**, XLI, 82.
- Chorten Nyima La, *Sikkim* (78 A/1; 27° 58' : 88° 14'), Jurassic beds (?). H. H. H., **M**, XXXVI, 145.
- Chorul R., *Indore* (55 B/3; 22° 21' : 76° 3'), western limit of Vindhyan. W. T. B., **M**, VI, 256.
- Chorun (Churum), *Persia* (10 O/6; 29° 35' : 51° 27'), conglomerate, Bakhtiyari series. G. E. P., **M**, XXXIV, pt. 4, 64.
- Chorwa Hatti, *Sirmur* (53 F/5; 30° 49' 30" : 77° 19'), olivine-dolerite. G. E. P., **M**, LIII, 56.

- Chota Nagra, *Singhbhum* (73 F/8; 22° 14' : 85° 18'), iron-ore. H. H. H., **R**, LI, 13.
- Chota Oodipoor, *Rewa Kantha* (46 J/3; 22° 18' : 74° 1'), metamorphic rocks. W. T. B., **M**, VI, 192, 323=Chhota Udepur.
- Chota Tawa R., *Nimar* (55 B/12; 22° 8' : 76° 38'), Bijawar limestone and breccia. W. T. B., **M**, VI, 248.
- Chota Tudgur, *Nander* (56 F/11; 18° 28' : 77° 35'), calcified gneiss. K. H., **R**, XLIX, 220 (Pl. xx, fig. 4).
- Chotan, *Jodhpur* (40 O/3; 25° 29' : 71° 4'), granite. T. D. L., **M**, XXXV, 77.
- Chothai (Chajjian), *Hazara* (43 G/1; 33° 53' : 73° 2'), Trias-Eocene, section. C. S. M., **M**, XXVI, 208.
- Choti R., *D. G. Khan* (39 K/1; 29° 45' : 70° 13'), Cretaceous fossils. W. T. B., **M**, XX, 221.
- Chotila, *Jodhpur* (45 G/1; 25° 52' : 73° 11'), Malani-Aravalli series, contact. C. A. H., **R**, XIV, 302; T. D. L., **A. R.**, 1898, 36. *See also* Khairla.
- Chotila, *Kathiawar* (41 N/3; 22° 25' 30" : 71° 12'), ash beds. F. F., **M**, XXI, 93; trap dykes, 105; miliolite, 128.
- Choubal (Chobhar), *Nepal* (72 E/6; 27° 40' : 85° 17'), limestone quarries. H. B. M., **R**, VIII, 97.
- Chouk-kalah, *Thayetmyo* (85 I/11; 19° 27' : 94° 41'), carbonaceous shale. W. T., **M**, X, 342; R. R. S., **M**, XLI, 65.
- Choukpaza, *Wuntho* (83 P/16; 24° 5' : 95° 51'), auriferous lode. F. N., **R**, XXVII, 118, 123; G. A. S., **A. R.**, 1900, 59; altaite. R. D. O., **R**, XXX, 110=Kyaukpazat.
- Choukri L., *Jodhpur* (45 F/11; 26° 29' : 73° 42' 30"), basal beds, Vindhyan. A. M. H., **R**, LXV, 476.
- Choung-ma-nay, *Toungoo* (94 B/14; 18° 44' : 96° 46'), hot spring. W. T., **M**, X, 353.
- Choura (Chhokra), *Gwalior* (54 J/4; 26° 6' : 78° 6'), trap flow. C. A. H., **R**, III, 38; H. B. M., **R**, VIII, 58.
- Ch'ou-shui, *Yunnan* (102 B/13; 22° 59' : 100° 45'), Triassic fossils. J. C. B., **R**, LIV, 316.
- Chout ka Barwara, *Jaipur* (54 B/4; 26° 3' : 76° 9'), Aravalli limestone. A. M. H., **M**, XLV, 132, 144; Gwalior quartzite, 138.
- Chowdibahal, *Sambalpur* (64 O/13; 21° 51' : 83° 48'), borings for coal. W. K., **R**, XVIII, 197; XIX, 211.
- Chow-ho (Chiao-hou-ching), *Yunnan* (92 N/16; 26° 5' : 99° 48'), salt mine and wells. J. C. B., **M**, XLVII, 178.
- Choya, *Shahpur* (43 D/3; 32° 24' : 72° 1' 30"), Salt Marl-Eocene, section. A. B. W., **M**, XIV, 227 (Pl. xxiii, fig. 40).
- Choya-Ganj-Ali-Shah, *Jhelum* (43 H/1; 32° 49' : 73° 4' 30"), Nahan sandstones. A. B. W., **M**, XIV, 145; basal conglomerate, Nahan series. C. S. M., **R**, XXIV, 26.
- Choya-Saidan-Shah, *Jhelum* (43 D/14; 32° 43' : 72° 59'), springs. A. B. W., **M**, XIV, 47; Salt Marl-U.Tertiary, section, 148 (Pl. xvi, fig. 20)=Choash Saidan Shah.
- Christianagram, *Tinnevely* (58 I/3; 8° 25' 30" : 78° 1' 30"), sub-recent fossils. R. B. F., **M**, XX, 64.

- Chuadanga, *Nadia* (79 A/14; 23° 38' : 88° 51'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 224.
- Chuari, *Chamba* (52 D/3; 32° 25' : 76° 1'), gneissose granite. C. A. M., **R**, XV, 40, 45; petrology. XVII, 64=Choari.
- Chuch-ho (Shude-Hkao), *Myitkyina* (92 K/9; 25° 56' : 98° 36'), crinoid limestone, Ordovician. M. S., **R**, LIV, 407.
- Chu-ch'ih, *Yunnan* (92 K/12; 25° 14' : 98° 36'), andesites. J. C. B., **R**, XLIII, 196.
- Ch'u-ching Fu, *Yunnan* (101 O/10; 25° 31' : 103° 44'), lead mines. J. C. B., **M**, XLVII, 124.
- Chuckergaon, *Andamans* (87 A/10; 11° 39' : 92° 42'), chromite. F. R. M., **R**, XVI, 204=Chakargaon.
- Chugna (Khagna), *Simla* (53 F/9; 30° 57' : 77° 31'), Blaini beds. C. A. M., **R**, X, 210.
- Chugya, *Tibet* (78 E/1; 27° 46' : 89° 11'), Jurassic limestone (?). H. H. H., **M**, XXXVI, 149.
- Chu-ho, *Yunnan* (102 A/10; 23° 32' : 100° 33' 30"), Permo-Triassic beds. J. C. B., **R**, LIV, 309.
- Chuikadan, *Eastern States* (64 G/2; 21° 31' 30" : 81° 0'), hot spring. T. O., **M**, XIX, 143.
- Chula R., *Rewah* (63 L/6; 24° 39' : 82° 21'), Panna shales. F. R. M., **M**, VII, 64.
- Chulgram (Julgran), *Hazara* (43 F/10; 34° 44' 30" : 73° 31'), supra-Kuling beds. R. L., **M**, XXII, 205.
- Chuli, *Jaipur* (54 B/11; 26° 26' : 76° 44'), breccia, Kaimur series. F. R. M., **M**, VII, 61; anticline in L. Rewah sandstone. A. M. H., **M**, XLV, 162, 174.
- Chumba, *Punjab* (52 D/2; 32° 33' : 76° 7'), Infra-Blaini beds (?). H. B. M., **M**, III, pt. 2, 64=Chamba.
- Chumbi, *Tibet* (78 A/15; 27° 28' : 88° 55'), granito. H. H. H., **M**, XXXVI, 140-142, 180.
- Chumdihli, *Ranchi* (73 F/9; 22° 56' 30" : 85° 38'), phyllites. J. A. D., **M**, LIV, 49; sericite-chlorite-schist, 82.
- Chumig Giarsa, *Ladakh* (52 H/9; 32° 57' : 77° 36'), Para limestone. F. S., **M**, V, 342.
- Chumolhari, *Tibet* (78 E/5; 27° 50' : 89° 18'), granite and gneiss. H. H. H., **R**, XXXII, 161=Chomolhari.
- Chumra, *Surguja* (64 M/9; 23° 47' : 83° 31'), *Glossopteris*. O. F., **R**, XIII, 68.
- Chumurugunta, *Nellore* (57 N/15; 14° 23' : 79° 55' 30"), Rajmahal beds. W. K., **M**, XVI, 171.
- Chunar, *Mirzapur* (63 K/16; 25° 8' : 82° 53'), sandstone quarries. F. R. M., **M**, VII, 116; V. B., **R**, VII, 116; Cutch earthquake, 1819. R. D. O., **M**, XLVI, 114.
- Chundeeya, *Cutch* (41 E/16; 23° 5' : 69° 51'), millstones. A. B. W., **M**, IX, 91.
- Chundi, *Nellore* (57 M/12; 15° 10' : 79° 41'), quartzites. R. B. F., **M**, XVI, 15; hematite-schist, 21; crystalline limestone, 23.
- Chundinkera, *Ohhatarpur* (54 P/11; 24° 27' : 79° 39'), overlap in Vindhya. H. B. M., **M**, II, 59.
- Chundna, *Santal Parganas* (72 P/6; 24° 43' : 87° 23'), travertine. V. B., **M**, XIII, 240.

- Chundol, *Hazaribagh* (73 E/5; 23° 51' 30" : 85° 15' 30"), Raniganj beds, section. A. J., **M**, LII, 128; Panchet beds, 133.
- Chundoor, *Kurnool* (56 L/4; 16° 3' 30" : 78° 1'), basal bed, Jammalamadugu stage. W. K., **M**, VIII, 79.
- Chundru R. *Hazaribagh* (73 E/1; 23° 51' : 85° 2'), coal seam. T. W. H. H., **M**, VII, 307; Ironstone shales, 314.
- Chune, *Chamba* (43 P/14; 32° 34' : 75° 52'), Kasauli sandstone, petrology. C. A. M., **R**, XVI, 186.
- Chungtanang, *Mergui* (96 J/9; 10° 53' : 98° 43'), contact metamorphism of schist. P. N. B., **R**, XXVI, 103 (Pl. xv, fig. 2)=Chaungtanaung.
- Chungtang, *Sikkim* (78 A/10; 27° 36' 30" : 88° 39'), marble. H. H. H., **R**, XXXII, 161=Tsuntang.
- Chunhat, *Palamau* (73 A/9; 23° 49' : 84° 41' 30"), travertine. V. B., **M**, XV, 32, 52.
- Chunika, *Hazaribagh* (72 I/8; 24° 9' : 86° 19'), Talchir plants. O. F., **R**, X, 137.
- Chuntia, *Naga Hills* (83 J/7; 26° 23' : 94° 27'), thrust-plane. H. H. H., **R**, XL, 292.
- Chuperbhita, *Sanial Parganas* (72 P/5; 24° 46' : 87° 26'), coalfield. V. B., **M**, XIII, 189 (Pl. ix)=Chaparbhita.
- Chupree, *Hazaribagh* (73 E/5; 23° 49' 30" : 85° 21'), Talchirs. A. J., **M**, LII, 14.
- Chura, *Khyber* (38 O/1; 33° 58' : 71° 11'), Permo-Carboniferous beds. H. H. H., **M**, XXVIII, 110.
- Chura, *Surgha* (64 M/5; 23° 55' : 83° 27'), trap dyke. C. L. G., **M**, XV, 135, 151.
- Churalia, *Burdwan* (73 M/1; 23° 47' : 87° 4' 30"), Barakar beds. W. T. B., **M**, III, 50.
- Churanthi R., *Darjeeling* (78 B/9; 26° 55' : 88° 34'), coal seams. P. N. B., **R**, XXIII, 245.
- Churcha, *Korea* (64 I/11; 23° 20' : 82° 33' 30"), coal seams. T. W. H. H., **M**, XXI, 201, 239=Charcha.
- Churhat, *Rewah* (63 H/11; 24° 25' 30" : 81° 40'), calcareous band, Kheinjua stage. P. N. D., **R**, XXIX, 80.
- Churi hill, *Korea* (64 I/12; 23° 11' 30" : 82° 34'), Archæan inlier. L. L. F., **M**, XLI, 163; Talchirs, 169.
- Churna I., *Las Bela* (35 L/9; 24° 54' : 66° 36'), Gaj beds. W. T. B., **M**, XVII, 189.
- Churoda, *Banda* (63 G/4; 25° 12' : 81° 4'), Semri series. H. B. M., **M**, II, 23.
- Chushal, *Hazara* (43 F/10; 34° 41' : 73° 31' 30"), Infra-Trias beds. D. N. W., **R**, LXV, 208.
- Chushal, *Ladakh* (52 K/10; 33° 36' : 78° 39'), hot spring. R. L., **M**, XXII, 44=Shushul.
- Chushmea, *Mianwali* (38 P/5; 32° 58' : 71° 16'), coal. R. R. S., **M**, XLI, 109=Chashmai.
- Chushü, *Tibet* (77 K/11; 29° 21' : 90° 44'), *schlieren* in granite. H. H. H., **M**, XXXVI, 182.
- Chuthan, *Shahabad* (63 P/10; 24° 38' : 83° 40' 30"), cchre. L. L. F., **R**, LIII, 294.

- Chutiattan, *Dir* (38 M/16; 35° 8' 30" : 71° 53' 30"), quartzites and slates. H. H. H., R., XLV, 276.
- Chutkurree (Kasi) R., *Manbhūm* (73 I/6; 23° 40' : 86° 27'), Barakar stage, section. T. W. H. H., M, V, 304; coal seams, 325.
- Chuttrala, *Drug* (64 C/14; 21° 34' 30" : 80° 52'), iron-ore. P. N. B., R., XX, 168.
- Chuttran, Chutrum, *Ladakh* (43 M/6; 35° 42' : 75° 25'), hot spring. R. L., R., XIV, 54; T. O., M, XIX, 124=Chitrum.
- Chuttee R., *Palamau* (73 A/14; 23° 40' : 84° 56'), Barakar-Raniganj stages, section. A. J., M, LII, 58=Chati R.
- Chutterkote hill, *Banda* (63 C/16; 25° 13' : 80° 46'), junction of Semri beds with granite. H. B. M., M, II, 18.
- Chuttermā, *Puri* (73 H/12; 20° 7' : 85° 37'), gneiss. W. T. B., M, I, 264.
- Chynepur, *Shahabad* (63 O/12; 25° 2' : 83° 30'), L. Vindhyan limestone. F. R. M., M, VII, 41.
- Cinque Is., *Andamans* (87 A/11; 11° 17' : 92° 43'), serpentine series. R. D. O., R., XVIII, 139; E. R. G., R., LIX, 225.
- Clary (Klari), *Malabar* (49 N/13; 10° 59' 30" : 75° 59'), augitic dyke. P. L., M, XXIV, 216.
- Clifdon, *Rawalpindi* (43 G/5; 33° 54' : 73° 22' 30"), gypsum. C. S. M., M, XXVI, 43, 226, 287.
- Clifton, *Karachi* (35 P/1; 24° 49' : 67° 2'), sandhills. R. D. O., M, XXXIV, 133 (figs. & Pls. i-vi).
- Coarlagutta, *Bellary* (48 M/16; 15° 4' : 75° 56'), tremolite-gneiss. R. B. F., M, XXV, 38.
- Cochin, *Madras* (58 C/1; 9° 57' : 76° 15'), earthquake, 4th April, 1905. C. S. M., M, XXXVIII, 350.
- Coconada, *Godavari* (65 L/1; 16° 56' : 82° 14'), Artesian boring. E. V., M, XXXII, 55.
- Coimbatonum, *Tanjore* (58 N/5; 10° 57' : 79° 22'), Cutch earthquake, 1819. R. D. O., M, XLVI, 115.
- Coimbatore, *Madras* (58 A/16; 11° 0' : 76° 58'), marble. H. F. B., M, I, 224 (figs.); V. B., R., VII, 108; charnockite. C. S. M., A. R., 1898, 21.
- Colebrook's I., *Andamans* (86 D/16; 12° 14' : 92° 54'), porcellanic limestone and jasper beds. E. R. G., R., LIX, 223.
- Colgong, *Bhagalpur* (72 O/3; 25° 16' : 87° 14'), granitoid gneiss. V. B., M, XIII, 173; earthquake, 1897, fissures. R. D. O., M, XXIX, 109, 326.
- Colingaputty (Kodangipatti), *Trichinopoly* (58 I/8; 11° 10' : 78° 27' 30"), granite. W. K., M, IV, 336.
- Colombo Observatory, *Ceylon* (59 N/13\*; 6° 54' : 79° 52' 30"), Srimangal earthquake, 1918, seismogram. M. S., M, XLVI, 37 (Pl. vii).
- Combaly (Kambalai), *Salem* (58 I/9; 11° 58' : 78° 35'), 'torrent mounds', W. K., M, IV, 349.
- Comillah, *Tippera* (79 M/3; 23° 28' : 91° 11'), earthquake, 1897. G. E. G., M, XXIX, 298; Srimangal earthquake, 1918. M. S., M, XLVI, 23.
- Cona Oopalpad (Kona Uppalapadu), *Anantapur* (57 E/16; 15° 6' : 77° 54'), limestone breccia. W. K., M, VIII, 77=Khona Oopalapad.

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\* Sheet L/11 Ceylon Topographical Survey, 1 in.=1 mile.

- Conjeveram, *Chingleput* (57 P/9; 12° 50' : 79° 42'), gravels. R. B. F., **M**, X, 41.
- Conjibuddy (Kanjiyadi), *Chingleput* (57 O/16; 13° 13' : 79° 48'), Rajmahal beds. R. B. F., **M**, X, 86.
- Cooch Behar, *Bengal* (78 F/7; 26° 19' : 89° 28'), Cachar earthquake, 1869. T. O., **M**, XIX, 31=Kuch Bihar.
- Coodicaud (Kudikkadu), *Trichinopoly* (58 I/16; 11° 9' 30" : 78° 55'), concretions. in Utatur plant bed. H. F. B., **M**, IV, 45 (fig.); Gondwana plant beds. R. B. F., **R**, XI, 250, 258=Cudicad.
- Coondanacota (Kundanakota), *Anantapur* (57 E/16; 15° 6' : 77° 57'), trap flows. W. K., **M**, VIII, 199.
- Coonoor, *Nilgiri* (58 A/15; 11° 21' : 76° 47'), charnockite. T. H. H., **M**, XXVIII, 186; olivine-norite, petrology. **R**, XXX, 25, 114 (Pl. xii).
- Coonum (Kunnam), *Trichinopoly* (58 M/4; 11° 14' : 79° 1' 30"), Utatur fossils. H. F. B., **M**, IV, 93.
- Coopoor (Koppur), *Chingleput* (57 O/16; 13° 4' 30" : 79° 58'), Rajmahal beds, section. R. B. F., **M**, X, 117.
- Coorchycolum (Kurichchikulam), *Trichinopoly* (58 M/3; 11° 19' : 79° 13'), flints in Ariyalur beds. H. F. B., **M**, IV, 142, 213.
- Copper Mt. (Sugamadevibetta), *Bellary* (57 A/16; 15° 4' : 76° 50'), Dharwar syncline. R. B. F., **M**, XXV, 132; **R**, XXII, 27; L. L. F., **M**, XXXVII, 995.
- Corteliar (Kottalaiyar). R., *Chingleput* (57 O/16; 13° 12' : 79° 52'), alluvium. R. B. F., **M**, X, 22.
- Cotrubaucaum (Kuttarambakkam), *Chingleput* (57 P/13; 12° 54' : 79° 45' 30"), outlier, Rajmahal beds. R. B. F., **M**, X, 119.
- Cotukall (Kottukal), *Travancore* (58 H/3; 8° 23' : 77° 2' 30"), Warkalli beds. R. B. F., **R**, XVI, 26.
- Courmullay (Kavara Malai), *Salem* (58 I/5; 11° 59' : 78° 18'), trap dyke. W. K., **M**, IV, 332.
- Cova Colum (Kovakulam), *Travancore* (58 H/12; 8° 5' : 77° 31'), Warkalli beds. R. B. F., **R**, XVI, 29.
- Covelong, *Chingleput* (66 D/1; 12° 47' : 80° 15'), sand dunes. R. B. F., **R**, X, 12; lagoon, 18.
- Craggy I., *Andamans* (86 G/4; 13° 13' : 93° 4'), calcareous sandstone. R. D. O., **R**, XVIII, 139.
- Cranganore, *Cochin* (58 B/4; 10° 13' : 76° 12'), meteorite. H. W.-r., **R**, LX, 139 (Pls. xxiv-xxvi).
- Cuddalore, *S. Arcot* (58 M/13; 11° 45' : 79° 46'), escarpment of Cuddalore sandstones. H. F. B., **M**, IV, 172 (Pl. ii).
- Cuddapah, *Madras* (57 J/15; 14° 29' : 78° 49'), mountain ranges. W. K., **M**, VIII, 25 (fig. 1, No. 3); Koil-Kuntla limestone, 52; supposed coal. R. B. F., **R**, IV, 17; R. R. S., **M**, XLI, 105.
- Cudicad, *Trichinopoly* (58 I/16; 11° 9' 30" : 78° 55'), Cretaceous fossils. R. B. F., **R**, XII, 162=Coodicaud.
- Cullmoad, *Trichinopoly* (58 M/4; 11° 11' : 79° 8'), reptilian remains. H. F. B., **M**, IV, 139=Kallamedu.

- Cullpaudy (Kalpadi), *Trichinopoly* (58 I/16;  $11^{\circ} 11' 30''$  :  $78^{\circ} 55' 30''$ ), Utatur plant beds. H. F. B., **M**, IV, 46, 89; coral-reef limestone, 58.
- Cullumbaucum (Kaliyambakkam), *Chittoor* (57 O/11;  $13^{\circ} 19' 30''$  :  $79^{\circ} 44'$ ), U. Gondwana beds. R. B. F., **R**, X, 77.
- Cullygoody (Kallakkudi), *Trichinopoly* (58 J/13;  $10^{\circ} 58' 30''$  :  $78^{\circ} 57'$ ), Utatur boulder bed. H. F. B., **M**, IV, 47, 95 (fig.); coral-reef limestone, 61 (fig.). 67; J. W., **R**, XXIII, 119.
- Culputty (Kalluppatti), *Trichinopoly* (58 J/5;  $10^{\circ} 54' 30''$  :  $78^{\circ} 25'$ ), crystalline limestone. W. K., **M**, IV, 274.
- Cumbum, *Kurnool* (57 M/2;  $15^{\circ} 35'$  :  $79^{\circ} 6' 30''$ ), slates. W. K., **M**, VIII, 227.
- Cunatur (Kunnattur), *S. Arcot* (58 M/5;  $11^{\circ} 49'$  :  $79^{\circ} 16' 30''$ ), granitoid gneiss. W. K., **M**, IV, 299.
- Cunnumbaucum (Kannambakkam), *Chingleput* (66 C/3;  $13^{\circ} 29' 30''$  :  $80^{\circ} 2'$ ), stone implements. R. B. F., **M**, X, 47.
- Cunum (Kunnam), *S. Arcot* (57 P/12;  $12^{\circ} 5' 30''$  :  $79^{\circ} 41'$ ), trap dykes. W. K., **M**, IV, 333.
- Cupedoo (Koppedu), *Chittoor* (57 O/11;  $13^{\circ} 24' 30''$  :  $79^{\circ} 42'$ ), stone implement factory. R. B. F., **M**, X, 57.
- Curcumbode, *Chittoor* (57 O/10;  $13^{\circ} 40'$  :  $79^{\circ} 31'$ ), fault. W. K., **M**, VIII, 135 =Karkambadi and Kirkumbady.
- Curdy Chittoor (Karadichittur), *S. Arcot* (58 I/13;  $11^{\circ} 49' 30''$  :  $78^{\circ} 52' 30''$ ), iron-ore. W. K., **M**, IV, 292.
- Curraguddy hill, *Bellary* (48 N/14;  $14^{\circ} 44'$  :  $75^{\circ} 47'$ ), psilomelane. L. L. F., **M**, XXXVII, 992=Karrabagaddi hill.
- Cutanur (Kuttanur), *N. Arcot* (57 P/9;  $12^{\circ} 49'$  :  $79^{\circ} 32' 30''$ ), Sripermatour beds. R. B. F., **R**, XII, 202.
- Cuthbert Bay, *Andamans* (86 D/14;  $12^{\circ} 42'$  :  $92^{\circ} 59'$ ), jasper beds. E. R. G., **R**, LIX, 215.
- Cuttack, *Orissa* (73 H/15;  $20^{\circ} 28'$  :  $85^{\circ} 52'$ ), Rajmahal sandstone. W. T. B., **M**, I, 253; Srimangal earthquake, 1918. M. S., **M**, XLVI, 33.
- Dab Dabba, *Goa* (48 E/14;  $15^{\circ} 34'$  :  $73^{\circ} 58'$ ), manganese-ore. L. L. F., **M**, XXXVII, 986.
- Dabagur (Dubbagura), *Adilabad* (56 M/7;  $19^{\circ} 21'$  :  $79^{\circ} 23' 30''$ ), carbonaceous shale in Kamthis. T. W. H. H., **R**, XI, 24.
- Dabheji, *Karachi* (35 P/5;  $24^{\circ} 49'$  :  $67^{\circ} 30'$ ), water-supply. E. H. P., **R**, LX, 57.
- Dabhoda, *Ahmadabad* (46 A/12;  $23^{\circ} 10'$  :  $72^{\circ} 45'$ ), earthquake, 1897, time record. R. D. O., **M**, XXIX, 66, 71.
- Dabiyat, *Aden* (7 C/14;  $13^{\circ} 36' 30''$  :  $44^{\circ} 46'$ ), volcanic ash beds. R. E. L., **R**, XXXVIII, 316; pinnacle of massive lava, 317 (Pl. xxxii).
- Dablat, *24-Parganas* (79 C/2;  $21^{\circ} 38'$  :  $88^{\circ} 8'$ ), tidal wave, earthquake, 1881. R. D. O., **R**, XVII, 48.
- Dablugaon, *Sibsagar* (83 M/8;  $27^{\circ} 5'$  :  $95^{\circ} 15'$ ), coal seams. R. R. S., **R**, XXXIV, 214.
- Dabra, *Indore* (45 P/1;  $24^{\circ} 54' 30''$  :  $75^{\circ} 7'$ ), meteorite. A. L. C., **R**, LXI, 318 (Pl. xxi).



- Dabra, *Karauli* (54 B/15; 26° 24' : 76° 46'), L. Vindhyan breccia. A. M. H., **M**, XLV, 152, 155.
- Dabrai, *Afghanistan* (34 I/8; 31° 8' : 66° 17'), granite. C. L. G., **M**, XVIII, 50.
- Dabur (Garh Dubaur), *Gaya* (72 H/10; 24° 35' 30" : 85° 33'), mica. T. H. H., **M**, XXXIV, 45; leucopyrite, 51; L. L. F., **R**, LIII, 252.
- Dacca, *Bengal* (79 I/6; 23° 43' : 90° 24'), earthquake, 1897. G. E. G., **M**, XXIX, 290; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 267; Srimangal earthquake, 1918. M. S., **M**, XLVI, 27.
- Dadan Raikela, *Bonai* (73 G/1; 21° 53' : 85° 6'), ash bed, Iron-ore series. E. H. P., **R**, LXI, 95.
- Dadar, *Kalat* (34 O/11; 29° 29' : 67° 39'), Gaj beds. C. L. G., **M**, XVIII, 16, U. Siwalik. W. T. B., **M**, XX, 116, 170.
- Dadawra, *Baraich* (63 E/10; 27° 43' : 81° 43'), geodetic station. R. D. O., **M**, XLII, 213.
- Daddi, *Belgaum* (47 L/8; 16° 4' : 74° 26' 30"), dam-site. E. H. P., **R**, LVI, 25.
- Dadeha, *Jaipur* (54 B/1; 26° 52' : 76° 9'), quartz-magnetite schists, Aravalli. A. M. H., **R**, LIV, 358.
- Dadhochha, *Rawalpindi* (43 G/6; 33° 32' : 73° 17'), U. Murree beds, fault. D. N. W., **M**, LI, 362.
- Dadikar, *Alwar* (54 A/10; 27° 36' : 76° 32' 30"), metamorphosed quartzites. A. M. H., **M**, XLV, 40; granite, 93; marble, 126=Dhadakir.
- Dadri, *Rewah* (63 L/3; 24° 24' : 82° 3' 30"), Vindhyan outlier. R. D. O., **R**, XXVIII, 143; **M**, XXXI, 126 (fig.).
- Dafdar, *Kashgar* (42 O/7; 37° 21' : 75° 24'), metamorphic rocks. H. H. H., **R**, XLV, 305.
- Dag, *Peshawar* (38 O/13; 33° 51' : 71° 49'), Eocene beds. C. L. G., **R**, XXV, 95.
- Daga R., *Bassein* (85 O/3; 17° 16' : 95° 14'), lake. W. T., **R**, III, 23.
- Dagunahalli, *Bellary* (48 N/13; 14° 59' 30" : 75° 56'), Dharwar conglomerate. R. B. F., **M**, XXV, 87.
- Dahana Drang, *Afghanistan* (38 G/2; 33° 38' : 69° 0' 30"), Rhætic limestone. C. L. G., **R**, XXV, 78.
- Dahan-i-Unai, *Afghanistan* (38 B/7; 34° 27' : 68° 26'), crystalline limestone. H. H. H., **M**, XXXIX, 73.
- Dahgal, *Rawalpindi* (43 G/6; 33° 43' : 73° 29' 30"), M. Siwalik beds. D. N. W., **M**, LI, 356.
- Dahianda, *Akola* (55 H/1; 20° 53' : 77° 8'), brine wells. L. L. F., **R**, L, 295=Dhyunda and Dyhunda.
- Dahoda, *Nagpur* (55 O/6; 21° 32' : 79° 16'), dolomitic marble, Bichua stage. L. L. F., **R**, LXV, 103.
- Daid, *Surguja* (64 N/5; 22° 46' : 83° 21'), aluminous laterite. C. S. F., **M**, XLIX, 155.
- Daigaon, *Rewah* (64 A/15; 23° 22' : 80° 59' 30"), *Vertebraria*. O. F., **R**, XIII, 187=Bara Daigaon.
- Dailu (Dhelu), *Mandi* (53 A/13; 31° 59' : 76° 45'), former glacier. W. T., **R**, VII, 89.

- Daini Ghat, *Hazaribagh* (73 E/1; 23° 54' : 85° 15'), fault-rock. O. F., **R**, XIV, 249.
- Dainkund, *Chamba* (52 D/2; 32° 31' : 76° 1'), granite. C. A. M., **R**, XV, 44.
- Daiserah (Darsia), *Athgarh* (73 H/10; 20° 31' : 85° 41' 30'), laterite and gneiss. V. B., **R**, X, 64.
- Daiyinah I., *Persian Gulf* (18 D/5; 24° 57' : 52° 23'), geology. G. E. P., **M**, XXXIV, pt. 4, 139; limestone, Hormuz series. XLVIII, pt. 2, 21.
- Dajong, *Sikkim* (78 A/7; 27° 18' : 88° 23'), copper-ore. P. N. B., **R**, XXIV, 227.
- Dak, *Tibet* (71 P/7; 28° 16' : 87° 23'), amphibolite. A. M. H., **R**, LIV, 223.
- Dakaiti, *Santal Parganas* (72 O/8; 25° 3' : 87° 22'), borings for coal. W. K., **R**, XXIII, 5; R. R. S. **M**, XLI, 39=Dakÿte.
- Dakaru (Dikari) R., *Sadiya* (83 M/1; 27° 47' : 95° 2'), coal. R. R. S., **M**, XLI, 15.
- Dakka, *Afghanistan* (38 N/4; 34° 13' : 71° 3'), slates. H. H. H., **M**, XXXIX, 41.
- Dakhnir, *Attock* (38 O/15; 33° 19' : 71° 50'), U. Siwalik syncline. L. L. F., **R**, LXV, 122.
- Dakner, *Attock* (43 C/5; 33° 51' : 72° 17'), fossils in limestone intercalated with Attock slates. A. B. W., **R**, X, 127; C. S. M., **M**, XXVI, 13; 'erratics'. W. T., **R**, XIII, 230 (Pl. ix, fig. 1).
- Dakÿte, *Santal Parganas* (72 O/8; 25° 3' : 87° 22'), Rajmahal beds. V. B., **M**, XIII, 213=Dakarti.
- Dala (Ad Dthala), *Aden* (7 C/10; 13° 42' : 44° 44'), lava flows. R. E. I., **R**, XXXVIII, 314 (Pls. xxx, xxxi); U. Cretaceous volcanic rocks, petrology. E. V., **R**, XXXVIII, 324 (Pl. xxxiv).
- Dalaikela, *Kharsavan* (73 F/13; 22° 45' : 85° 47'), chlorite-talc-schist. J. A. D., **M**, LIV, 116.
- Dalan, *Punch* (43 K/1; 33° 48' : 74° 5'), folding in Murree beds. D. N. W., **M**, LI, 321.
- Dalangyun, *Yamethin* (85 M/14; 19° 39' : 95° 46'), calcareous sandstones, Pegu series. E. H. P., **R**, LVIII, 47.
- Dalbandin, *Chagai* (34 D/5; 28° 54' : 64° 25'), Siwalik beds. E. V., **M**, XXXI, 237.
- Dalbot, *Garo Hills* (78 K/9; 25° 50' : 90° 40'), earthquake, 1897, fault. R. D. O., **M**, XXIX, 141.
- Dalelpur, *Bundi* (45 O/11; 25° 29' : 75° 39'), L. Bhandar limestone. A. L. C., **R**, LX, 174; limestone in Samria shales, 176.
- Dalhousie, *Kangra* (43 P/14; 32° 32' : 75° 58'), contact of Himalayan series with granitoid gneiss. H. B. M., **M**, III, pt. 2, 65; R. L., **M**, XXII, 271; geology. C. A. M., **R**, XV, 34 (Pl. iv); inclusions in gneissose granite. XVII, 169 (Pl. xi); building sites. T. D. L., **R**, XI, 96; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 182.
- Daliki, *Persia* (10 O/7; 29° 26' : 51° 17' 30"), hot spring, sulphurous. G. E. P., **M**, XXXIV, pt. 4, 62; petroleum spring, 146.
- Daling, *Darjeeling* (78 A/12; 27° 0' : 88° 42'), slates. F. R. M., **M**, XI, 11, 39; colliery. R. R. S., **M**, XLI, 36.

- Dalli, *Drug* (64 H/2; 20° 34' : 81° 3' 30"), hot spring. T. O., **M**, XIX, 143 : iron-ore. P. N. B., **R**, XX, 169=Dhalli.
- Dalma hill, *Manbhūm* (73 J/1; 22° 53' : 86° 13'), trap. V. B., **M**, XVIII, 79; J. A. D., **M**, LIV, 75.
- Dalmah I., *Persian Gulf* (18 D/7: 24° 30' : 52° 18'), Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 143.
- Dalog, *Dasbahr* (53 E/11; 31° 20' 30" : 77° 41'), 'central gneiss'. C. A. M., **R**, X, 218.
- Dalpatpura, *Mewar* (46 E/5; 23° 55' 30" : 73° 25'), dolerite. L. L. F., **R**, LXV, 143.
- Daltola (Deultangi), *Puri* (73 H/12; 20° 8' : 85° 34'), well-section in laterite. W. T. B., **M**, I, 284, 290.
- Daltonganj, *Palamau* (72 D/4; 24° 2' : 84° 4'), coalfield. T. W. H. H., **M**, VIII, 325 (Pls. ii, iii); T. D. L., **R**, XXIV, 141 (Pl. vi); R. R. S., **M**, XLI, 59; copper-ore. V. B., **M**, XV, 125; mica. L. L. F., **R**, LXV, 57; Srimangal earthquake, 1918. M. S., **M**, XLVI, 33.
- Dalu, *Garo Hills* (78 K/4; 25° 13' : 90° 13'), earthquake, 1897. R. D. O., **M**, XXIX, 15; Miocene fossils. E. S. P., **R**, L, 127; E. V., **R**, LI, 303; LIII, 84; E. H. P., **R**, LXII, 24.
- Damach, *Karachi* (35 O/15; 25° 18' 30" : 67° 46'), Gaj-Nari series, mollusca. E. V., **M**, L, 422, 431, 454; *Nummulites*. W. L. F. N., **R**, LIX, 138; *Assilina*, 145.
- Damarkhunda, *Manbhūm* (73 I/14; 23° 43' 30" : 86° 47'), coal seam. W. T. B., **M**, III, 65.
- Damarni, *E. Khandesh* (46 O/12; 21° 10' : 75° 33' 30"), hot spring. T. O., **M**, XIX, 135.
- Damathat, *Amherst* (94 H/14; 16° 30' 30" : 97° 49'), hot spring. T. O., **M**, XIX, 152.
- Damavapak (Damarapakkam), *N. Arcot* (57 P/5; 12° 45' 30" : 79° 18' 30"), talcose beds. R. B. F., **R**, XII, 193.
- Damavas, *Idar* (46 E 1; 23° 59' : 73° 7'), biotite-gneiss. C. S. M., **M**, XLIV, 29 (fig. & Pl. iii): aplites, 35, 41.
- Dambal, *Dharwar* (48 M/15; 15° 17' 30" : 75° 46'), goldfield. R. B. F., **R**, VII, 133 (Pl. v); XXI, 49; igneous rocks. J. M. M., **R**, XXXIV, 112.
- Damchok, *Hundes* (52 P/6; 32° 41' 30" : 79° 28'), hot spring. T. O., **M**, XIX, 127.
- Damdama, *Bharatpur* (54 F/5; 26° 55' : 77° 16'), quartzites. C. A. H., **R**, X, 87; A. M. H., **R**, XLVIII, 191.
- Damel (Dammer), *Chitral* (38 M/11; 35° 23' : 71° 40'), manganese-ore. E. H. P., **R**, LV, 15.
- Damercherla, *Warangal* (65 G/2; 17° 36' : 81° 4'), coalfield. W. T. B., **R**, IV, 61; W. K., **M**, XVIII, 192, 302; R. R. S., **M**, XLI, 96, 108.
- Damhamunda, *Bilaspur* (64 J/1; 22° 50' : 82° 10'), coalfield. R. R. S., **M**, XLI, 83.
- Damia, *Chhindwara* (55 J/8; 22° 11' 30" : 78° 28'), colliery, analysis of coal. G. V. H., **R**, LIX, 183.
- Damkura, *Gangpur* (73 B/3; 22° 16' 30" : 84° 8'), mica-schists. L. L. F., **R**, LXV, 73.

- Damlai, *Rajpipla* (46 G/2 ; 21° 42' : 73° 13'), pottery clay. P. N. B., **R**, XXXVII, 186.
- Dammur, *Bellary* (57 A/15 ; 15° 18' : 76° 55'), red granite. R. B. F., **M**, XXV, 61, 200 ; hematite-quartzite, 151.
- Damra, *Birbhum* (72 P/12 ; 24° 5' : 87° 40'), iron-ore. T. W. H. H., **M**, XIII, 244 ; analyses, 248.
- Damra, *Goalpara* (78 K/13 ; 25° 56' : 90° 46'), earthquake, 1897, sounds. R. D. O., **M**, XXIX, 197.
- Damtola, *Almora* (53 O/5 ; 29° 51' : 79° 23'), Krol limestone. R. D. O., **R**, XVI, 162.
- Damtour, *Hazara* (43 F/8 ; 34° 8' : 73° 16'), Triassic limestone. A. B. W., **R**, XII, 210=Dhamtaur, Dhantaur and Dhuntour.
- Damudapur, *Burdwan* (73 M/2 ; 23° 42' : 87° 5' 30"), coal seam. W. T. B., **M**, III, 80.
- Damukdea, *Nadia* (78 H/4 ; 24° 3' : 89° 0' 30"), earthquake, 1897, time record. R. D. O., **M**, XXIX, 64, 71.
- Damul, *Chingleput* (57 P/9 ; 12° 53' : 79° 35' 30"), Conjeveram gravels. R. B. F., **M**, X, 42.
- Danulia, *Burdwan* (73 M/2 ; 23° 36' : 87° 5'), coal seam. W. T. B., **M**, III, 98 (fig.) ; opening of colliery, 155, 158.
- Damurka, *Cutch* (41 I/3 ; 23° 20' : 70° 9' 30"), Jurassic plant beds. A. B. W., **M**, IX, 139.
- Dan Kesora, *Surguja* (64 N/1 ; 22° 47' 30" : 83° 9'), laterite. C. S. F., **M**, XLIX, 152.
- Dand, *Kohat* (38 O/8 ; 33° 14' 30" : 71° 23'), lignite. A. B. W., **M**, XI, 294 ; R. R. S., **M**, XLI, 108.
- Dandal, *Ladakh* (43 N/15 ; 34° 25' : 75° 52' 30"), hornblendic rocks. R. L., **R**, XIII, 28=Dundul.
- Dandan Shikan Kotal, *Afghanistan* (33 M/11 ; 35° 16' : 67° 37'), Tertiary unconformity. H. H. H., **M**, XXXIX, 67 ; Cretaceous fossils. H. S. B., **R**, LVI, 262.
- Dandapur, *Belgaum* (47 L/15 ; 16° 18' : 74° 49'), heulandite. R. B. F., **M**, XII, 189.
- Dandapur, *Gorakhpur* (63 N/13 ; 26° 56' : 83° 55'), meteorite. J. C. B., **M**, XLIII, 189.
- Dandi, Dandi Jaswal, *Attock* (38 O/14 ; 33° 37' : 71° 59'), sulphur or alum works. A. B. W., **R**, XII, 102 ; E. H. P., **M**, XL, 411 ; Nummulitic series. **R**, LXIII, 138.
- Dandia, *Merwara* (45 J/8 ; 26° 2' : 74° 24'), graphite. E. H. P., **R**, LVI, 20.
- Dandidih, *Hazaribagh* (72 L/8 ; 24° 10' : 86° 19' 30"), Talchir beds. T. W. H. H., **M**, VII, 218.
- Dandli, *Jammu* (43 G/14 ; 33° 32' : 73° 58'), inlier of limestone. H. B. M., **R**, IX, 53 ; R. L., **M**, XXII, 202 ; coalfield. C. M. P. Wright, **R**, XXXIV, 37 (Pl. vii) ; R. R. S., **M**, XI.I, 100=Dundelce.
- Dandot, *Jhelum* (43 D/14 ; 32° 39' : 72° 58'), sections of scarp. A. B. W., **M**, XIV, 164 (Pl. xviii) ; C. S. M., **R**, XXIV, 33 (Pl. iii, fig. 5) ; C. S. F., **R**, LXI, 153 (figs. & Pls. vi-xi) ; phosphatic nodules, analysis. H. W., **R**, XX, 50 ; E. H. P., **R**, LXIV, 418 ; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII,

- 217; alum shale. N. D. D., **R**, XL, 281; coalfield. R. R. S., **M**, XLI, 110 (Pl. xii); boring. H. H. H., **R**, XLI, 70.
- Dangara, *Sirmur* (53 F/5; 30° 48' 30" : 77° 16' 30"), overthrust in Blaini series. G. E. P., **M**, LIII, 27 (fig.).
- Dangarwara, *Alwar* (54 A/11; 27° 15' 30" : 76° 34'), Alwar series, dip-fault. A. M. H., **M**, XLV, 44.
- Dangora, *Gwalior* (54 G/13; 25° 54' 30" : 77° 57'), limestone, Morar series. C. A. H., **R**, III, 37.
- Dangot (Dhingot) hill, *Mianwali* (38 P/9; 32° 59' : 71° 38'), L. Siwalik sandstones. A. B. W., **R**, X, 120=Dungote hill.
- Danithagya, *Tavoy* (95 F/13; 14° 53' : 97° 49'), basic dykes. J. C. B., **M**, XLIV, 189.
- Dankhar, *Spiti* (52 L/4; 32° 5' 30" : 78° 13'), Permian conglomerate. H. H. H., **M**, XXXVI, 52, 108, 109; Upper Trias, 83; galena, 102; L. Trias (?). C. D., **M**, XXXVI, 229=Drangkhar.
- Danmauri, *Idar* (45 D/16; 24° 12' 30" : 73° 0'), amphibolite limestone. C. S. M., **M**, XLIV, 49.
- Danna (E.), *Punch* (43 K/5; 33° 50' 30" : 74° 20'), quartz veins. D. N. W., **M**, LI, 225; Gondwanas, section, 307 (Pl. ix, fig. 4).
- Danna (W.), *Punch* (43 K/1; 33° 53' : 74° 10'), Eocene foraminifera. D. N. W., **M**, LI, 260; limestone scarp, 296; coal, 366.
- Dannanapeta, *Vizagapatam* (65 N/12; 18° 11' : 83° 31'), manganese-ore. L. L. F., **M**, XXXVII, 462-3, 1048.
- Danoi, *Rawalpindi* (43 G/6; 33° 43' 30" : 73° 29' 30"), escarpment, Kamliar sandstone. D. N. W., **M**, LI, 357.
- Dantal, *Jairpur* (54 A/2; 27° 40' : 76° 0' 30"), syncline, Ajabgarh series. A. M. H., **R**, LIV, 370 (fig.).
- Dantalbora, *Warangal* (65 C/14; 17° 35' : 80° 50'), Talchir beds. W. T. B., **R**, V, 24.
- Dantrol, *Idar* (46 A/13; 23° 54' : 72° 59'), Idar granite. C. S. M., **M**, XLIV, 117.
- Danwai, *Jubbulpore* (64 A/3; 23° 30' : 80° 12'), manganiferous iron-ore. F. R. M., **R**, XVI, 101; P. N. B., **R**, XXI, 75, 77, 87=Dhanwahi.
- Daohal, *Lakhimpur* (83 M/7; 27° 15' 30" : 95° 25'), coal. R. R. S., **R**, XXXIV, 203.
- Daolatpura, *Bundi* (45 O/11; 25° 24' : 75° 35'), limestone in Sirbu shales. A. L. C., **R**, LX, 180.
- Daorahra, *Rewah* (63 H/7; 24° 19' : 81° 21'), Kaimur-Rohtas junction. P. N. D., **M**, XXXI, 157.
- Dapha R., *Singpho Hills* (92 A/10; 27° 33' : 96° 40'), river terraces. T. D. L., **R**, XIX, 114; J. M. M., **R**, XXXI, 193, 202.
- Dara (N.), *Punch* (43 K/1; 33° 58' : 74° 15'), Kopra gneiss. D. N. W., **M**, LI, 299.
- Dara (S.), *Punch* (43 K/5; 33° 46' 30" : 74° 15' 30'), 'central gneiss'. D. N. W., **M**, LI, 223; Trias, 304.
- Dara Hech, *Afghanistan* (33 M/12; 35° 13' : 67° 34'), Saighan series. H. H. H., **M**, XXXIX, 59.

- Dara Yusuf, *Afghanistan* (33 M/1 ; 35° 47' : 67° 14'), Saighan series. H. H. H., **M**, XXXIX, 30.
- Daraba, *Punch* (43 K/6 ; 33° 36' 30" : 74° 18'), basalt, Panjal Trap. D. N. W., **M**, LI, 240 ; coal seams, 312, 366.
- Darabwali, *Rawalpindi* (43 C/14 ; 33° 41' 30" : 72° 45' 30"), Giurnal beds, recumbent folding. D. N. W., **M**, LI, 256, 350.
- Daramgarh, *Patna State* (64 P/3 ; 20° 24' 30" : 83° 14' 30"), graphite. V. B., **R**, X, 183 ; L. L. F., **R**, LIII, 270.
- Darampur, *Simla* (53 E/8 ; 31° 10' 30" : 77° 19'), Shali limestone. H. B. M., **M**, III, Pt. 2, 49.
- Darang, *Mandi* (53 A/13 ; 31° 49' : 76° 57'), altered basalt, petrology. C. A. M., **R**, XV, 155 (Pls. ix, x)=Drang.
- Daranga, *Kamrup* (78 N/9 ; 26° 47' : 91° 31'), Siwalik beds. G. E. P., **R**, XXXIV, 23.
- Daranggiri, *Garo Hills* (78 K/11 ; 25° 27' : 90° 42'), coalfield. H. B. M., **R**, VII, 59 ; T. D. L., **R**, XV, 175 (Pl. xi) ; R. R. S., **M**, XLI, 24 ; earthquake, 1897 aftershocks. R. D. O., **M**, XXIX, 127.
- Darnoli (Derauli), *Jaipur* (54 B/13 ; 26° 55' : 76° 56'), kaolin. H. H. H., **R**, XLIII, 19.
- Darapur, *Jhelum* (43 H/10 ; 32° 43' 30" : 73° 32'), U. Siwalik beds. G. E. P., **R**, XLIII, 274.
- Darawali, *Punch* (43 K/5 ; 33° 58' 30" : 74° 17'), Dogra slates. D. N. W., **M**, LI, 228 ; Gondwana boundary, 300.
- Darband, *Kohat* (38 K/14 ; 33° 31' : 70° 59' 30"), Eocene beds. C. L. G., **R**, XXV, 82.
- Darband, *Yasin* (42 H/6 ; 36° 41' : 73° 24' 30"), Fusulina limestone. H. H. H., **R**, XLV, 294.
- Darbatdanga, *Burdwan* (73 M/1 ; 23° 45' : 87° 8' 30"), 'black band' in Barakars. W. T. B., **M**, III, 50.
- Darcha, *Lahul* (52 H/2 ; 32° 40' : 77° 13'), 'central gneiss'. R. L., **R**, XI, 55, 59.
- Dardoni, *Waziristan* (38 K/4 ; 33° 3' : 70° 1'), water-supply. E. H. P., **R**, LVIII, 35.
- Daree, *Hazara* (43 B/16 ; 34° 4' 30" : 72° 52'), epidiorite. C. S. M., **M**, XXVI, 79.
- Dareh Tang, *Bannu* (38 P/2 ; 32° 37' : 71° 10'), dam-site. E. H. P., **R**, LXIII, 69.
- Dargadevi Konda, *Nellore* (57 N/6 ; 14° 36' : 79° 21'), Cuddapah unconformity. W. K., **M**, XVI, 155.
- Dargai, *Afghanistan* (38 F/15 ; 34° 29' : 69° 53'), folding in crystalline rocks. H. H. H., **M**, XXXIX, 11 (fig.).
- Dargai, *Swat* (38 N/14 ; 34° 31' : 71° 54'), hornblende-schist. H. H. H., **R**, XLV, 275.
- Darga-ka-Nangal, *Patiala* (54 A/1 ; 27° 53' : 76° 2' 30"), manganese-ore. P. N. B., **R**, XXXIII, 58=Durga-ka-Nangal.
- Dargoti, *Simla* (53 E/12 ; 31° 7' : 77° 36'), lead-ore. F. N., **A. R.**, 1903, 14 ; assays. G. S. L., **R**, XXXI, 47.

- Dari, *Singhbhum* (73 J/2; 22° 41' : 86° 11'), potstone. V. B., **R**, III, 96 (note); **M**, XVIII, 129, 148.
- Daria-i-Mahalu, *Persia* (17 C/15; 29° 25' : 52° 48'), salt lake. G. E. P., **M**, XXXIV, pt. 4, 74.
- Dariala, *Jhelum* (43 D/13; 32° 46' : 72° 53'), Siwalik beds, section. W. T., **R**, XIV, 83=Dhariala.
- Dariba, *Jaipur* (45 M/14; 27° 40' : 75° 54'), anticline, Ajabgarh series. A. M. H., **R**, LIV, 372 (fig.).
- Dariba, *Mewar* (45 L/1; 24° 57' : 74° 8'), iron-, copper- and lead-ores. L. L. F., **R**, LXV, 51, 55.
- Daribo, *Alwar* (54 A/8; 27° 10' : 76° 23'), copper-ore. C. A. H., **R**, X, 91; XIII, 246; A. M. H., **M**, XLV, 120.
- Darion (Dadio), *Singhbhum* (73 F/6; 22° 43' : 85° 18' 30'), altered epidiorite. J. A. D., **M**, LIV, 91.
- Dariot Waris, *Rawalpindi* (43 G/6; 33° 36' 30" : 73° 22'), Siwalik syncline. D. N. W., **M**, LI, 354.
- Darjiling, Darjeeling, *Bengal* (78 A/8; 27° 3' : 88° 16'), gneiss, lithology. F. R. M., **M**, XI, 43; coalfield, 51; P. N. B., **R**, XXIII, 237 (Pl. xxii); XXIV, 212; R. R. S., **M**, XLI, 35; earthquakes : Cachar, 1869. T. O., **M**, XIX, 31; Assam, 1897. H. H. H., **M**, XXIX, 282 (fig. & Pl. xxxii, fig. 1); Kangra, 1905. C. S. M., **M**, XXXVIII, 260; Srimangal, 1918. M. S., **M**, XLVI, 28; landslips. H. H. H., **R**, XLII, 76; XLIII, 17; C. S. M., **R**, XLV, 119.
- Darjing, *Bonai* (73 C/13; 21° 56' : 84° 53'), alluvial gold. L. L. F., **R**, LIII, 269=Durjing.
- Darkot pass, *Chitral* (42 H/6; 36° 43' : 73° 25'), granite. H. H. H., **R**, XLV, 294.
- Darmahpooor (Dharmapuri), *Salem* (57 L/4; 12° 8' : 78° 10'), graphic granite. W. K., **M**, IV, 338.
- Darmanu range, *Persia* (24 F/2; 30° 31' : 57° 5'), Jura-Cretaceous beds. G. H. T., **R**, LIII, 57, 60.
- Darmugh, *Persia* (25 A/3; 27° 21' : 56° 13'), sandstone, Fars series. G. E. P., **M**, XLVIII, pt. 2, 98.
- Darog, *Simla* (53 E/8; 31° 5" : 77° 24'), Chail limestone. G. E. P., **M**, LIII, 115.
- Daroji, *Bellary* (57 A/11; 15° 15' 30" : 76° 40'), magnesite. R. B. F., **M**, XXV, 136; Dharwar beds, section, 138; fault-rock, 157.
- Daroli (Diroli), *Datia* (54 J/12; 26° 12' : 78° 42'), ochre. D. N. W., **R**, LIV, 342.
- Daronta, *Afghanistan* (38 J/7; 34° 28' : 70° 22'), Siwalik beds. H. H. H., **M**, XXXIX, 39; gorge in gneissose granite, 43=Doronta.
- Darora, *Dir* (38 M/16; 35° 7' : 71° 58'), granite. H. H. H., **R**, XLV, 276.
- Darridih, *Surguja* (64 M/8; 23° 4' : 83° 18'), coal seam. R. R. S., **M**, XLI, 81.
- Dars, *Gilgit* (43 M/4; 35° 4' 30" : 75° 5'), gneissose granite. R. L., **R**, XIV, 5=Das.
- Darsamand, *Kohat* (38 K/11; 33° 26' : 70° 40'), Mesozoic-Eocene beds, section. A. B. W., **R**, XII, 109 (Pl. iv, fig. 2).

- Darsani, Darshani, *Jubbulpore* (64 A/3 ; 23° 30' : 80° 4'), manganese-ore. P. N. B., **R**, XXI, 77 ; L. L. F., **M**, XXXVII, 821.
- Dartacachar, *Jubbulpore* (55 M/12 ; 23° 6' : 79° 41'), fossil bones in Narbada alluvium. W. T., **M**, II, 289.
- Darwala, *Rawulpindi* (43 G/2 ; 33° 36' 30" : 73° 13'), Siwalik syncline. D. N. W., **M**, LI, 346.
- Darwas (Dharwas), *Chamba* (52 C/8 ; 33° 7' : 76° 23'), granite, petrology. C. A. M., **R**, XVII, 54, 68.
- Daryapur, *Amraoti* (55 H/5 ; 20° 55' 30" : 77° 20'), boring for water. H. C., **R**, LXII, 452.
- Darzeit, *Oman* (26 I/10 ; 23° 38' : 58° 32'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 19, 89.
- Das, *Gilgit* (43 M/4 ; 35° 4' 30" : 75° 5'), gneissose granite. R. L., **M**, XXII, 308 = Dars.
- Das I., *Persian Gulf* (18 C/16 ; 25° 8' : 52° 52'), Hormuz rocks. G. E. P., **M**, XXXIV, pt. 4, 143.
- Dasampatti, *Salem* (57 L/8 ; 12° 15' : 78° 26' 30"), marble. E. H. P., **R**, LVIII, 24.
- Dasauri, *Ranchi* (73 F/9 ; 22° 56' : 85° 37'), phyllites. J. A. D., **M**, LIV, 49 ; epidosite, 82.
- Dasht-i-Arjan, *Persia* (17 C/2 29° 40' : 52° 2'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 72.
- Dasht-i-Barm, *Persia* (10 O/14 ; 29° 32' : 51° 54'), alluvial plain. G. E. P., **M**, XXXIV, pt. 4, 71.
- Dasht-i-Gazak, *Afghanistan* (33 M/S. E. ; 35° 15' : 67° 45') recumbent fold. H. H. H., **M**, XXXIX, 3 (fig.) ; thrust-plane, 66.
- Dasht-i-Safed, *Afghanistan* (33 M/15 ; 35° 19' : 67° 53'), recumbent fold. H. H. H., **M**, XXXIX, 3 (Pl. ii) ; overthrust, 4 (fig.) ; Red Grit series, 62 ; Tertiary beds with gypsum and sulphur, 66 ; Cretaceous fossils. H. S. B., **R**, LVI, 265.
- Dasmatpur, *Jeypore* (65 I/16 ; 19° 2' 30" : 82° 55' 30"), ferruginous schists. C. S. M., **A. R.**, 1902, 22.
- Daso, *Ladakh* (43 M/10 ; 35° 43' : 75° 31'), aquamarine. C. S. M., **R**, XLIX, 161 (fig. & Pls. vi-ix) ; E. H. P., **R**, LII, 289.
- Dasur (Dachuru), *Nellore* (57 N/11 ; 14° 23' : 79° 34'), epidote quartz-schist, W. K., **M**, XVI, 138, 141.
- Datairi, *Meerut* (53 H/10 ; 28° 44' : 77° 41'), geodetic station. R. D. O., **M**, XLII, 219, 245.
- Dathwo, *Yamethin* (93 D/7 ; 20° 25' : 96° 19'), galena. E. H. P., **R**, LIX, 48.
- Datiar Chauki, *Pinjaur* (53 B/13 ; 30° 50' : 76° 59'), coal seam. C. L. G., **R**, XXV, 7 ; R. R. S., **M**, XLI, 112.
- Datla, *Chhindwara* (55 J/12 ; 22° 11' 30" : 78° 34'), coal seam. E. J. J., **M**, XXIV, 37 ; R. R. S. **M**, XLI, 94.
- Datla hill, *Patiala* (53 D/4 ; 28° 3' : 76° 4'), marble. P. N. B., **R**, XXXIII, 59.
- Datunda, *Bundi* (45 O/7 ; 25° 27' : 75° 27'), copper-ore. C. A. H., **R**, XIII, 247 ; Aravalli slates, XIV, 290 ; manganese-ore. L. L. F., **M**, XXXVII, 405, 1158 ; iron-ore. E. H. P., **R**, LIX, 45 ; Vindhyan beds. A. L. C., **R**, LX, 176, 178, 186 ; flagstone quarry, 190.



- Dauki, *Jaintia Hills* (83 C/4 ; 25° 11' : 92° 1'), earthquake, 1897, change of level. R. D. O., **M**, XXIX, 170.
- Dauksa, *Spiti* (52 L/4 ; 32° 14' : 78° 1'), ochre. H. H. H., **A. R.**, 1899, 50.
- Daulapani, *Mewar* (45 L/11 ; 24° 15' : 74° 40' 30"), basal beds, Delhi series. C. A. H., **R**, XIV, 294.
- Dauri (Deori) **R.**, *Palamanu* (73 A/1 ; 23° 50' : 84° 6'), coal seams. V. B., **M**, XV, 96 ; R. R. S., **M**, XLI, 59.
- Dausa (Daosa), *Jaipur* (54 B/5 ; 26° 54' : 76° 20'), Aravalli quartzites and schists. A. M. H., **R**, LIV, 358.
- Daversolabetta, *Nilgiri* (58 A/11 ; 11° 26' : 76° 44'), trap dykes. H. F. B., **M**, I, 226.
- Daviran range, *Persia* (24 B/N. W. ; 30° 40' : 56° 15'), crystalline limestone, Oman series. G. E. P., **M**, XLVIII, pt. 2, 9, 65.
- Dawagar, *D. G. Khan* (39 J/6 ; 30° 32' : 70° 27'), *Nummulites beaumonti*. W. L. F. N., **R**, LIX, 131.
- Dawe, *Almora* (62 B/7 ; 30° 26' : 80° 29'), folding in 'Trias. C. L. G., **M**, XXIII, 179 (Pls. vii, fig. 2, xvii & xviii a).
- Dawer, *Merwara* (45 G/15 ; 25° 26' : 73° 49'), actinolite-schists. C. A. H., **R**, XIV, 283.
- Day-beng (? Lebini), *Thayetmyo* (85 J/13 ; 18° 59' : 94° 59'), brine spring. W. T., **R**, VI, 69.
- Dayvallah, *Wynaad* (58 A/7 ; 11° 28' : 76° 23'), old workings for gold. W. K., **R**, VIII, 33 = Devala.
- Daywarrapilli (Devarapalle), *Kistna* (65 G/12 ; 17° 2' : 81° 33' 30"), Rajmahal fossils. W. K., **R**, VII, 159.
- Deori Shikarpur, *Purnea* (72 O/9 ; 25° 51' : 87° 35'), meteorite. G. V. H., **R**, LX, 139 (Pls. v, vi).
- Debra, *Midnapore* (73 N/11 ; 22° 24' : 87° 33' 30"), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 325.
- Dechourie, Dechauri, *Naini Tal* (53 O/7 ; 29° 23' : 79° 20'), iron-ore. H. B. M., **M**, III, 178 ; C. S. M., **M**, XXIV, 86 = Deh-chaury.
- Dedan, *Kathiawar* (41 O/8 ; 21° 3' : 71° 17'), trap dykes. F. F., **M**, XXI, 105.
- Dedaye, *Pyäpon* (85 P/15 ; 16° 24' 30" : 95° 54'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 238.
- Dedhalia, *Idar* (46 E/6 ; 23° 33' 30" : 73° 22'), magnesian rocks. C. S. M., **M**, XLIV, 104.
- Dedum hill (Lum Didom), *Khasi Hills* (78 O/11 ; 25° 22' : 91° 41'), coal seam. F. R. M., **R**, VIII, 86 ; R. R. S., **M**, XLI, 26.
- Deehing **R.**, *Lakhimpur* (83 M/S. E. ; 27° 18' : 95° 40'), bifurcation. H. B. M., **M**, IV, 438 = Dihing **R**.
- Degana, *Jodhpur* (45 J/5 ; 26° 50' : 74° 20'), wolfram. H. H. H., **R**, XLIV, 26 ; XLVII, 26 ; XLIX, 18 ; L. L. F., **R**, LIV, 36 ; ilmenite. G. H. T., **R**, LII, 307.
- Deh Bakri pass, *Persia* (24 G/16 ; 29° 3' : 57° 57'), Cretaceous agglomerate. G. H. T., **R**, LIII, 62 (Pl. xi, fig. 4).
- Deh Imam, *Afghanistan* (33 M/12 ; 35° 11' : 67° 38'), Cretaceous-Tertiary unconformity. H. H. H., **M**, XXXIX, 58.

- Deh Shal (Shah Ghari), *Chitral* (42 D/13; 36° 46' : 72° 47'), asbestos. E. H. P., **R**, LVI, 22.
- Dehan-i-Abbas Ali, *Persia* (24 L/16; 28° 11' : 58° 52'), lava flows. G. H. T., **R**, LIII, 69.
- Dehbid, *Persia* (17 F/2; 30° 37' 30" : 53° 12'), Oman series. G. E. P., **M**, XLVIII, pt. 2, 8.
- Deh-chauri, *Naini Tal* (53 O/7; 29° 23' : 79° 19'), iron-ore. T. W. H. H., **R**, VII, 19 = Dechouric.
- Dehdiz, *Persia* (10 I/6; 31° 43' : 50° 23'), nonmuditic limestone. G. E. P., **M**, XXXIV, pt. 4, 84.
- Dehegam, *Baroda* (46 A/16; 23° 10' : 72° 49'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 67.
- Deh-i-Surkh, *Afghanistan* (33 F/13; 35° 47' : 65° 49'), Cretaceous beds. C. L. G., **R**, XIX, 253; fossils. H. S. B., **R**, LVI, 266, 268.
- Dehra Dun, *United Provs.* (53 J/3; 30° 19' : 78° 2'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 80 (figs. Pls. xvii, xx & xxvii); Srimangal earthquake, 1918, seismogram. M. S., **M**, XLVI, 40.
- Dehri, *Shahabad* (72 D/1; 24° 54' : 84° 10' 30"), sandstone quarries. V. B., **R**, VII, 116.
- Dehrud, *Persia* (22 P/4; 36° 10' : 59° 7'), Carboniferous rocks. C. L. G., **R**, XIX, 49; trap rock, 52.
- Deh-Tang, *Afghanistan* (38 A/16; 35° 3' : 68° 49'), metamorphic rocks. H. H. H., **M**, XXXIX, 49.
- Dei, *Indore* (46 J/12; 22° 7' : 74° 35'), volcanic focus (?). P. N. B., **M**, XXI, 57.
- Deijmoo R., *Lakhimpur* (83 I/14; 27° 37' : 94° 51'), fossil elephant's tooth. H. B. M., **M**, IV, 436; J. M. M., **R**, XXXI, 193 = Durjmu R.
- Deinwa R., *Hoshangabad* (55 J/6; 22° 35' : 78° 25'), Mahadeva escarpment. J. G. M., **M**, II, 168 (fig.) = Denwa R.
- Deireh (Dera Gopipur), *Kangra* (53 A/1; 31° 53' : 76° 13'), Siwalik anticline. H. B. M., **M**, III, pt. 2, 145 = Deyra.
- Dekhajoli, Dekhia Juli, *Lakhimpur* (83 M/7; 27° 18' : 95° 27'), coal seams. R. R. S., **R**, XXXIV, 201; oil seepages. E. H. P., **M**, XL, 294.
- Dekia (Digha), *Manbhum* (73 J/9; 22° 47' : 86° 31' 30"), argentiferous galena. V. B., **R**, III, 75; **M**, XVIII, 82, 108; L. L. F., **R**, LIII, 284.
- Delakhari, *Chhindwara* (55 J/11; 22° 25' 30" : 78° 37'), possible coalfield. E. H. P., **R**, LIX, 85.
- Delawas, *Alwar* (54 A/6; 27° 33' : 76° 29' 30"), granite. A. M. H., **M**, XLV, 40; Alwar quartzite, 42; Kushalgarh limestone, 57 (figs.); graphitic quartzite, 68, 84; asbestos, 123.
- Delbhakherua, *Rewah* (64 E/15; 23° 25' : 81° 54'), coal seams. T. W. H. H., **M**, XXI, 191, 239.
- Delchi, *Afghanistan* (33 M/12; 35° 11' : 67° 43'), Saighan series. H. H. H., **M**, XXXIX, 61 (Pl. xi).
- Delhi, *Punjab* (53 H/2; 28° 39' : 77° 14'), quartzites. C. A. H., **R**, XIV, 292; A. M. H., **M**, XLV, 34; earthquake, 1897, time record. R. D. O., **M**, XXIX, 66, 71; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 221; meteorite. J. C. B., **M**, XLIII, 190.

- Dembha, *Rewah* (63 H/7 ; 24° 17' : 81° 27'), L. Vindhyan porcellanites. P. N. D., **M**, XXXI, 143.
- Dendwe, *Burdwan* (73 I/13 ; 23° 47' : 86° 52'), coal seam. W. T. B., **M**, III, 58.
- Deni, *Nagpur* (55 P/5 ; 20° 52' 30" : 79° 23'), syncline in Lameta beds. L. L. F., **R**, LXV, 105.
- Densurgi, *Kalahandi* (64 P/8 ; 20° 11' : 83° 28'), graphite. T. L. W., **M**, XXXIII, pt. 3, 16 ; L. L. F., **R**, LIII, 270.
- Denwa R., *Hoshangabad* (55 J/6 ; 22° 35' : 78° 25'), Denwa clays. H. B. M., **M**, X, 153 = Deinwa R.
- Deo Chandeshwar, *Khairpur* (40 F/15 ; 26° 18' : 69° 48'), hot spring. T. O., **M**, XIX, 133.
- Deoban Mt., *Dehra Dun* (53 F/14 ; 30° 45' : 77° 52'), limestone. R. D. O., **R**, XVI, 195 ; **XXI**, 133 = Deobun Mt.
- Deobar, *Palamau* (73 A/5 ; 23° 47' : 84° 23' 30"), Mahadeva beds. V. B., **M**, XV, 90.
- Deobogh, *Raipur* (65 I/9 ; 19° 54' : 82° 40'), laterite. V. B., **R**, X, 170 ; Vindhyan quartzites, 177.
- Deobun Mt., *Dehra Dun* (53 F/14 ; 30° 45' : 77° 53'), limestone. H. B. M., **M**, III, pt. 2, 43 = Deoban Mt.
- Deucha, *Birbhum* (72 P/12 ; 24° 2' : 87° 35'), beds higher than Panchets. W. T. B., **M**, III, 138 ; trap dyke. V. B., **M**, XIII, 220 ; iron-smelting, 242.
- Deodungri hill, *Chhindwara* (55 J/15 ; 22° 18' : 78° 54'), thomsonite in Deccan trap. J. G. M., **M**, II, 220.
- Deogarh, *Bundi* (45 O/7 ; 25° 26' 30" : 75° 26'), Gwalior-Vindhyan beds. A. L. C., **R**, LX, 187.
- Deogarh, *Chhindwara* (55 K/9 ; 21° 52' 30" : 78° 44' 30"), Deccan trap boundary. P. N. D., **R**, XXXIII, 222.
- Deogarh, *Mewar* (45 G/14 ; 25° 32' : 73° 55'), felsitic bands in Aravallis. C. A. H., **R**, XIV, 302 ; basal beds, Delhi series. E. H. P., **R**, LVIII, 63, 66.
- Deogarh, *Santal Parganas* (72 L/11 ; 24° 29' : 86° 42'), coalfields. T. W. H. H., **M**, VII, 247 (Pl. ii) ; earthquake, 1897, fissures. R. D. O., **M**, XXIX, 110, 327 ; Srimangal earthquake, 1918. M. S., **M**, XLVI, 33.
- Deogirisahi, *Saraikela* (73 F/14 ; 22° 44' : 85° 54'), block fault. J. A. D., **M**, LIV, 23 ; folding in schists, 32 (fig.).
- Deokhol, *Korea* (64 I/11 ; 23° 21' 30" : 82° 36' 30"), coal seam. T. W. H. H., **M**, XXI, 202, 239.
- Deola, *Nisarpur* (46 N/3 ; 22° 19' : 75° 6'), Cretaceous marl. P. N. B., **M**, XXI, 39.
- Deolapar, *Nagpur* (55 O/6 ; 21° 35' : 79° 22'), manganese-ore. E. H. P., **R**, LXI, 113 ; biotite-gneiss. L. L. F., **R**, LXV, 102.
- Deoli, *Manbhum* (73 I/14 ; 23° 39' : 86° 53'), coal seam. W. T. B., **M**, III, 120 ; Panchet bone bed, 129 ; E. R. G., **R**, LXIII, 208.
- Deoljhari (Wodisinga), *Atmakalik* (73 D/10 ; 20° 44' : 84° 30'), hot springs, sulphurous. L. L. F., **R**, LIII, 292.
- Deopani R., *Sibsagar* (83 F/12 ; 26° 12' : 93° 42'), trap flow. F. H. S., **M**, XXVIII, 79 ; limestone, 83 ; C. S. M., **R**, XLV, 115.
- Deora (E.), *Rewah* (63 L/11 ; 24° 29' : 82° 35'), Bijawar melaphyre. E. V., **M**, XXXI, 86.

- Deora (W.), *Rewah* (63 H/4 ; 24° 9' : 81° 12'), Kheinjua stage, section. P. N. D., **M**, XXXI, 146.
- Deora, *Simla* (53 E/12 ; 31° 6' 30" : 77° 40'), 'central gneiss'. C. A. M., **R**, X, 216.
- Deori (E.), *Jubbulpore* (64 A/10 ; 23° 33' : 80° 33'), hot spring. T. O., **M**, XIX, 136.
- Deori (W.), *Jubbulpore* (64 A/2 ; 23° 30' 30" : 80° 14'), pyrolusite. P. N. B., **R**, XXI, 84.
- Deori (E.), *Rewah* (63 L<sub>1</sub>/7 ; 24° 25' : 82° 29'), Bijawar sandstone. E. V., **M**, XXXI, 62.
- Deori (W.), *Rewah* (63 H/4 ; 24° 13' : 81° 1'), concretions in Rohtas limestone. P. N. D., **M**, XXXI, 153.
- Doori (S.), *Rewah* (64 E/11 ; 23° 16' 30" : 81° 39' 30"), coal seam. T. W. H. H., **M**, XXI, 239.
- Deori, *Simla* (53 E/12 ; 31° 9' : 77° 34'), mica-schists. C. A. M., **R**, X, 216.
- Deorpali, *Warangal* (65 G/2 ; 17° 38' 30" : 81° 1'), Kamthi sandstones. W. T. B., **R**, IV, 111.
- Deosai, *Ladakh* (43 N/5 ; 34° 58' : 75° 20'), granitic gneiss. R. L., **R**, XIV, 17 ; glaciation, 49.
- Deosar, *Rewah* (63 L<sub>1</sub>/8 ; 24° 12' : 82° 17'), Gondwanas. R. D. O., **M**, XXXI, 133.
- Deosir hill, *Hissar* (53 D/1 ; 28° 46' : 76° 5'), granite, petrology. C. A. M., **R**, XVII, 114.
- Deotana, *Alwar* (54 A/13 ; 27° 51' 30" : 76° 50'), Ajabgarh beds. A. M. H., **M**, XLV, 80 ; pegmatite, 99.
- Deoti (Dawuti) lake, *Alwar* (54 A/8 ; 27° 10' : 76° 30'), syncline in Alwars. A. M. H., **M**, XLV, 44, 47 ; Kushalgarh limestone, 60 ; hornstone breccia, 66 (Pl. x, fig. 1) ; Ajabgarh slates, 82.
- Depsa, *Spiti* (53 E/13 ; 31° 56' : 77° 54'), basic dykes. H. H. H., **M**, XXXVI, 98.
- Dera, *Punch* (43 G/10 ; 33° 41' : 73° 40'), Himalayan syntaxis. D. N. W., **M**, LI, 358.
- Dera Bet, *Cutch* (40 H/12 ; 24° 12' : 69° 40'), subsidence, earthquake, 1819. R. D. O., **M**, XLVI, 100.
- Dera Budhal, *Punch* (43 G/8 ; 33° 9' : 73° 18'), Siwalik anticline. D. N. W., **M**, LI, 361.
- Dera Bugti, *Sibi* (39 G/4 ; 29° 2' : 69° 9'), vertebrates, Nari series. G. E. P., **R**, XXXVII, 143 ; *Nummulites*. W. L. F. N., **R**, LIX, 131 ; *Discocyclus*, 148 = Bugti Dera.
- Dera Ghazi Khan, *Punjab* (39 J/12 ; 30° 4' : 70° 45'), erosion of Indus. R. D. O., **A. R.**, 1902, 28 ; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 230.
- Dera Ismail Khan, *N. W. F. Prov.* (39 I/13 ; 31° 50' : 70° 54'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 229.
- Derabund, *D. I. Khan* (39 I/6 ; 31° 44' : 70° 20'), earthquake, 1831. F. M. B., **M**, XXXV, 159.
- Derata, *Punch* (43 G/9 ; 33° 48' 30" : 73° 38'), *Aceratherium* teeth. D. N. W., **M**, LI, 331.

- Derbund, *Hazara* (43 B/15 ; 34° 20' : 72° 52'), mica schist. C. S. M., **M**, XXVI, 251.
- Derdag, *Ranchi* (73 A/8 ; 23° 8' : 84° 20'), laterite. C. S. F., **M**, XLIX, 179.
- Deredag, *Palamau* (73 A/9 ; 23° 50' : 84° 43'), limestone. V. B., **M**, XV, 32.
- Dereng, *Talchir* (73 C/16 ; 21° 7' : 85° 0'), fault. W. T. B., **M**, I, 68.
- Dergoan (Dargawan), *Panna* (54 P/7 ; 24° 26' : 79° 17'), cavern. H. B. M., **M**, II, 33.
- Deri Shah Sikandarwali, *Rawalpindi* (43 C/14 ; 33° 42' : 72° 57' 30"), bituminous earth. E. H. P., **M**, XL, 396.
- Deristan, *Persian Gulf* (18 N/13 ; 26° 45' 30" : 55° 51'), oyster bed, Miocene. G. E. P., **M**, XXXIV, pt. 4, 126.
- Derol, *Idar* (45 H/4 ; 24° 1' 30" : 73° 7'), biotite gneiss and Delhi quartzite, contact. C. S. M., **M**, XLIV, 28 (fig.) ; dip slope in Delhi quartzite, 80 (Pl. iv, fig. 2).
- Derpai, *Lakhimpur* (83 I/6 ; 27° 30' 30" : 94° 17'), alluvial gold. J. M. M., **R**, XXXI, 225, 229 (Pl. xxvii).
- Des valley, *Sibi* (39 C/6 ; 29° 36' : 68° 28'), Dunghan series. R. D. O., **R**, XXV, 21 ; Cretaceous-Tertiary sequence. F. N., **A. R.**, 1899, 52-61 ; *Physa prinssepii*. E. V., **R**, XXXV, 114 ; Cretaceous, faunal zones. XXXVI, 172 ; *Flemingostrea*. XLVII, 199 (Pl. xvii).
- Desam R., *Lakhimpur* (83 M/8 ; 27° 11' : 95° 22'), coal seams. R. R. S., **R**, XXXIV, 205.
- Deser Gerh, *Burdwan* (73 I/14 ; 23° 41' 30" : 86° 50'), manganiferous iron-ore, analysis. L. L. F., **M**, XXXVII, 614 = Dishargarh.
- Deskit, *Ladakh* (52 F/10 ; 34° 33' : 77° 35'), fan talus. R. L., **M**, XXII, 51 (fig.).
- Desotar, *Idar* (46 A/13 ; 23° 48' : 72° 52' 30"), Idar granite. C. S. M., **M**, XLIV, 117.
- Dessaun (Dhasan) R., *Saugor* (54 L/16 ; 24° 13' : 78° 52'), Semri series. H. B. M., **M**, II, 29.
- Desuri, *Jodhpur* (45 G/11 ; 25° 16' : 73° 34'), marble. C. A. H., **R**, XIV, 281 ; T. D. L., **M**, XXXV, 17.
- Dev Mori, *Idar* (46 E/6 ; 23° 40' 30" : 73° 24'), steatite and asbestos. C. S. M., **R**, XLII, 52 (Pls. xiv-xvi) ; **M**, XLIV, 100, 148.
- Deva R., *Rajpipla* (46 G/13 ; 21° 49' : 73° 50'), Bagh beds, inclinc. W. T. B., **M**, VI, 209, 213, 346.
- Devacachar, *Narsinghpur* (55 M/4 ; 23° 0' 30" : 79° 7'), unconformity between older and newer alluvium. W. T., **M**, II, 281 (fig.) ; fossil bones, 290.
- Devada, *Vizagapatam* (65 N/11 ; 18° 15' : 83° 34'), spandite. L. L. F., **M**, XXXVII, 180 ; fluor-apatite, 206, 251 ; manganese-ore, 508, 1073.
- Devadimanda, *Vizagapatam* (65 J/16 ; 18° 15' : 82° 58'), garnetiferous gneiss. W. K., **R**, XIX, 152.
- Devagondanahalli, *Bellary* (48 N/13 ; 14° 59' 30" : 75° 56'), Dharwar conglomerates. J. M. M., **R**, XXXIV, 109.
- Devagudur, *Nellore* (57 M/15 ; 15° 19' : 79° 56' 30"), lateritic gravels. R. B. F., **M**, XVI, 88.
- Devala, *Nilgiri* (58 A/7 ; 11° 28' : 76° 23'), auriferous reefs. H. H. H., **A. R.**, 1900, 53 ; charnockite. **M**, XXXIII, pt. 2, 13 ; mica. T. H. H., **M**, XXXIV, 65 = Dayvallah.

- Devarakonda, *Nellore* (57 M/3; 15° 17' : 79° 7'), kyanite-rock. J. A. D., **M**, LII, 164.
- Devarapilli, *Vizagapatam* (65 N/12; 18° 12' 30" : 83° 38'), manganese-ore. L. L. F., **M**, XXXVII, 462, 1048.
- Devgad, *Ratnagiri* (47 H/7; 16° 23' : 73° 22'), bauxite. C. S. F., **M**, XLIX, 95.
- Devi, *Chhindwara* (55 K/14; 21° 42' 30" : 78° 54'), calciphyre and crystalline limestones, petrology. L. L. F., **R**, XXXIII, 190-201; manganese-ore, 212; rhodochrosite. **M**, XXXVII, 123, 201, 341; rhodonite, 139; manganese-ore, 790.
- Devi Gali, *Punch* (43 G/13; 33° 46' 30" : 73° 51'), lacustrine deposits. D. N. W., **M**, LI, 288.
- Devi Mata, *Mewar* (45 H/15; 24° 24' : 73° 45'), marble. E. H. P., **R**, LXII, 33.
- Devikot, *Jaisalmer* (40 N/2; 26° 42' : 71° 12'), Gondwana sandstone. R. D. O., **R**, XXI, 32.
- Dewad (Dohad), *Panch Mahals* (46 J/5; 22° 50' : 74° 15' 30"), Intertrappean beds. W. T. B., **R**, V, 93.
- Dewadand, *Korea* (64 I/8; 23° 2' : 82° 18'), Archæan inlier. L. L. F., **M**, XLI, 163.
- Dewal, *Rawalpindi* (43 F/8; 34° 1' : 73° 29'), anticline in Murree beds. D. N. W., **M**, LI, 322.
- Dewalgaon, *Chanda* (55 P/15; 20° 23' : 79° 59' 30"), iron-ore. P. N. D., **R**, XXXVIII, 310.
- Dewalmari, *Chanda* (56 M/15; 19° 18' : 79° 58' 30"), Sullavai series. W. K., **M**, XVIII, 234.
- Dewan Hat, *Cooch Behar* (78 F/8; 26° 14' : 89° 29'), earthquake, 1897, effect on railway. H. H. H., **M**, XXIX, 287 (Pl. vii).
- Dewangiri, *Kamrup* (78 N/5; 26° 52' : 91° 29'), earthquake, 1897, landslips. R. D. O., **M**, XXIX, 335.
- Dewardha, *Chhindwara* (55 K/13; 21° 58' 30" : 78° 56' 30"), syncline in Deccan trap. L. L. F., **R**, XLVII, 107.
- Dewarsan, *Cawnpore* (63 B/7; 26° 16' : 80° 18'), geodetic station. R. D. O., **M**, XLII, 213.
- Dewra (Deora), *Bijawar* (54 P/10; 24° 35' : 79° 39'), iron mines. H. B. M., **M**, II, 45.
- Deyra, *Kangra* (53 A/1; 31° 53' : 76° 13'), *Colossochelys*. W. T., **R**, VII, 143 = Deirah.
- Dhab, *Hazaribagh* (72 H/14; 24° 35' : 85° 46'), mica. F. R. M., **R**, VII, 42; T. H. H., **M**, XXXIV, 45; leucopyrite. L. L. F., **R**, LIII, 252.
- Dhabal, *Idar* (46 E/2; 23° 40' : 73° 0' 30"), Idar granite. C. S. M., **M**, XLIV, 125.
- Dhabka, *Behul* (55 K/3; 21° 28' 30" : 78° 5'), Infra-trappean beds. W. T. B., **M**, VI, 277.
- Dhadakir, *Alwar* (54 A/10; 27° 36' : 76° 32' 30"), marble. H. H. H., **R**, XLIV, 16 = Dadikar.
- Dhadka, *Manbhūm* (73 J/9; 22° 47' 30" : 86° 30'), platinum and gold. F. R. M., **R**, XV, 55; L. L. F., **R**, LIII, 286; epidiorite, petrology. J. M. M., **R**, XXXI, 74.

- Dhaila, *Sirmur* (53 F/5;  $30^{\circ} 56' : 77^{\circ} 18' 30''$ ), unconformity, Chail-Blaini series. G. E. P., **M**, LIII, 23.
- Dhakar, *Rewah* (64 E/15;  $23^{\circ} 28' 30'' : 81^{\circ} 53'$ ), coal seam. T. W. H. H., **M**, XXI, 239.
- Dhakasarum, *Hazaribagh* (73 E/9;  $23^{\circ} 47' : 85^{\circ} 39'$ ), trap dykes and coal. T. W. H. H., **M**, VI, 84.
- Dhalli, *Drug* (64 H/2;  $20^{\circ} 34' : 81^{\circ} 3' 30''$ ), iron-ore. L. L. F., **R**, L, 286 = Dalli.
- Dhamdhar, *Garhwal* (53 K/14;  $29^{\circ} 41' 30'' : 78^{\circ} 51'$ ), Tal beds, unconformity. C. S. M., **R**, XVIII, 75.
- Dhamla, *Sirmur* (53 F/5;  $30^{\circ} 56' : 77^{\circ} 22'$ ), unconformity, Chail-Blaini series. G. E. P., **M**, LIII, 23.
- Dhamni, *Chanda* (55 P/3;  $20^{\circ} 15' : 79^{\circ} 8'$ ), Lameta fish-bed. T. W. H. H., **M**, XIII, 89; C. A. Matley, **R**, LIII, 159.
- Dhamni, *Rewah* (64 E/8;  $23^{\circ} 7' : 81^{\circ} 29'$ ), seeds of *Noegerathiopsis*. T. W. H. H., **R**, XIV, 313; **M**, XXI, 184.
- Dhamni, *Santal Parganas* (72 P/5;  $24^{\circ} 47' 30'' : 87^{\circ} 29'$ ), Barakar beds. V. B., **M**, XIII, 191 = Dhumni.
- Dhamra, *Burdwan* (73 M/2;  $23^{\circ} 39' : 87^{\circ} 1'$ ), coal seam. W. T. B., **M**, III, 109.
- Dhamtaur, *Hazara* (43 F/8;  $34^{\circ} 8' : 73^{\circ} 16'$ ), analysis of coal. G. S. L., **R**, XXXI, 52 = Damtour, Dhantaur and Dhuntour.
- Dhamun Nag, *Suket* (53 E/7;  $31^{\circ} 19' : 77^{\circ} 18'$ ), junction of Himalayan series with gneiss. H. B. M., **M**, III, pt. 2, 50.
- Dhanbad, *Manbhum* (73 I/5;  $23^{\circ} 47' : 86^{\circ} 26'$ ), water-supply. E. H. P., **R**, LX, 54.
- Dhandalpur, *Jhabua* (46 J/10;  $22^{\circ} 40' 30'' : 74^{\circ} 40'$ ), grit altered by basalt. T. H. H., **R**, XXXVII, 46.
- Dhandhuka, *Ahmadabad* (41 N/15;  $22^{\circ} 23' : 71^{\circ} 59'$ ), boring for water. E. H. P., **R**, LIX, 61; LX, 55.
- Dhandora, *Chota Udaipur* (46 F/15;  $22^{\circ} 19' 30'' : 73^{\circ} 58'$ ), marble. G. V. H., **R**, LIX, 351, 355.
- Dhanoum (Dhadaon), *Bundi* (54 C/2;  $25^{\circ} 38' : 76^{\circ} 1' 30''$ ), Gwalior conglomerate. A. L. C., **R**, LX, 167 (Pl. xvii, fig. 2); U. Vindhyan, section, 177 (fig.).
- Dhangaon, *Jubbulpore* (55 M/15;  $23^{\circ} 22' 30'' : 79^{\circ} 58' 30''$ ), manganese-ore. P. N. B., **R**, XXI, 86.
- Dhangarvadi, *Kolhapur* (47 H/13;  $16^{\circ} 55' : 73^{\circ} 51'$ ), bauxite. H. C. J., **R**, LIV, 423; C. S. F., **M**, XLIX, 82.
- Dhangarwada, *Belgaum* (48 I/6;  $15^{\circ} 37' : 74^{\circ} 24'$ ), manganese-ore. E. H. P., **R**, LXII, 59.
- Dhangawan, *Jubbulpore* (64 A/2;  $23^{\circ} 34' : 80^{\circ} 11'$ ), bauxite. C. S. F., **M**, XLIX, 113.
- Dhangri, *Jhelum* (43 H/5;  $32^{\circ} 52' 30'' : 73^{\circ} 26'$ ), Eocene-Siwalik beds. L. L. F., **R**, LXV, 119.
- Dhangrot, *Jhelum* (43 G/12;  $33^{\circ} 12' : 73^{\circ} 40'$ ), Siwalik anticline. L. L. F., **R**, LXV, 119.
- Dhani Bathanta, *Patiala* (54 A/1;  $27^{\circ} 59' : 76^{\circ} 8'$ ), limestone. P. N. B., **R**, XXXIII, 59.
- Dhanivada, *Idar* (46 E/11;  $23^{\circ} 29' 30'' : 73^{\circ} 34'$ ), pyrolusite. C. S. M., **M**, XLIV, 115.

- Dhankoti, *Santal Parganas* (72 P/7; 24° 23' : 87° 25' 30"), carbonaceous shale. V. B., **M**, XIII, 186.
- Dhanota (Dhaloto), *Patiala* (44 P/16; 28° 2' : 75° 59' 30"), iron-ore. P. N. B., **R**, XXXIII, 57.
- Dhanpur, *Chota Udaipur* (46 F/15; 22° 28' : 73° 51'), gneissose granite. G. V. H., **R**, LIX, 344.
- Dhanpur, *Garhwal* (53 N/4; 30° 13' : 79° 6'), copper and lead-ores. A. W. L., **R**, II, 88; epidiorite, petrology. C. S. M., **R**, XXI, 19; galena, assay. G. S. L., **R**, XXX, 252.
- Dhanpuri, *Rewah* (64 E/12; 23° 11' : 81° 33'), coal seams. T. W. H. H., **M**, XXI, 239; section. G. F. R., **A. R.**, 1900, 71.
- Dhansiri R., *Sibsagar* (83 F/S. E.; 26° 4' : 93° 48'), L. Siwalik shales. F. H. S., **M**, XXVIII, 86 = Dunseri R.
- Dhantaur, *Hazara* (43 F/8; 34° 8' : 73° 16'), *Mortoniceras*. G. C., **R**, LIX, 406 = Damtour, Dhantaur and Dhumtour.
- Dhanwahi, *Jubbulpore* (64 A/3; 23° 30' : 80° 12'), manganiferous iron-ore. L. L. F., **M**, XXXVII, 595, 825 = Danwai.
- Dhapawada, *Nagpur* (55 K/15; 21° 18' : 78° 55'), Intertrappean fossils. W. T. B., **M**, IX, 318.
- Dhapla, *Naini Tal* (53 O/7; 29° 19' : 79° 24'), gypsum. C. S. M., **R**, XXII, 137 (Pl. vi).
- Dhar, *Cent. India* (46 N/6; 22° 35' : 75° 18'), geology. E. V., **A. R.**, 1903, 19, (fig.).
- Dhar, *Gurdaspur* (43 P/15; 32° 24' : 75° 49'), Siwalik sandstone, petrology. C. A. M., **R**, XVI, 189.
- Dhar, *Simla* (53 E/4; 31° 0' : 77° 14'), Blaini series. G. E. P., **M**, LIII, 85.
- Dhara, *Punch* (43 K/1; 33° 46' : 74° 14'), bituminous limestone. D. N. W., **M**, LI, 265.
- Dhara Mohra, *Punch* (43 K/6; 33° 37' : 74° 20'), Agglomerate Slate series, section. D. N. W., **M**, LI, 235; ironstone shales, 312.
- Dharampur, *Balaghat* (64 C/9; 21° 58' 30" : 80° 33'), manganese-ore. L. L. F., **M**, XXXVII, 732.
- Dharampur, *Jubbulpore* (64 A/3; 23° 23' : 80° 2'), manganiferous iron-ore. P. N. B., **R**, XXI, 73, 85; L. L. F., **M**, XXXVII, 833.
- Dharamrai, *Indore* (46 J/12; 22° 3' : 74° 41' 30"), ielstone. P. N. B., **M**, XXI, 57.
- Dharan Lak, *Larkhana* (35 N/16; 26° 13' : 67° 51'), Echinoidea, Eocene. E. V., **R**, XXXIV, 189; Nari series, *Venus*. **M**, L, 453.
- Dharangi, *Kohat* (38 O/3; 33° 16' 30" : 71° 13'), Nummulitic anticline. E. H. P., **M**, XI, 419 (Pls. lxxxiv, lxxxv).
- Dharasna, *Surat* (46 D/14; 20° 41' : 72° 55' 30"), salt works. W. K. C., **R**, LVII, 270.
- Dhar-Dharachh, *Punch* (43 G/10; 33° 41' 30" : 73° 39'), plateau. D. N. W., **M**, LI, 209.
- Dharel, *Simla* (53 E/4; 31° 9' 30" : 77° 1' 30"), Chail overthrust, section. G. E. P., **M**, LIII, 97.
- Dhargam, *Sylhet* (78 O/16; 25° 6' 30" : 91° 56'), earthquake, 1897, river change. R. D. O., **M**, XXIX, 344.



- Dhargaoon, *Garhwal* (53 K/14; 29° 41' : 78° 49'), Tal beds, unconformity. C. S. M., R, XVIII, 75.
- Dhari, *Dhar* (55 B/7; 22° 19' : 76° 21'), columnar trap. W. T. B., M, VI, 261; Rewah conglomerate. F. R. M., M, VII, 79; waterfall. E. V., R, XXXIII, 37 (Pl. iv).
- Dhariaia, *Jhelum* (43 D/13; 32° 46' : 72° 53'), *Aceratherium*. G. E. P., R, XL, 65 = Dariala.
- Dharmapuri, *Salem* (57 L/4; 12° 8' : 78° 10'), corundum. C. S. M., R, XXIX, 46.
- Dharmaur, *Kulu* (53 E/1; 31° 59' : 77° 14'), hot spring. T. O., M, XIX, 121.
- Dharpur, *Simla* (53 E/8; 31° 10' 30" : 77° 19' 30"), Shali limestone. G. E. P., M, LIII, 125.
- Dharmasala, *Kangra* (52 D/8; 32° 13' : 76° 19'), landslip, 1900. T. H. H., A, R., 1901, 13; earthquake, 1905. C. S. M., M, XXXVIII, 14, 306 (figs. & Pls. iv-viii); meteorite. J. C. B., M, XLIII, 191=Dharmasala.
- Dharol, *Idar* (46 A/13; 23° 59' : 72° 59' 30"), calc-gneiss. C. S. M., M, XLIV, 15, 19 (figs. & Pl. viii, fig. 2); aplites, 36 (Pl. x, fig. 3); Idar granite, 119, 125 (Pl. xiv, fig. 6).
- Dharoli, *Gwalior* (54 J/4; 26° 4' : 78° 6'), Morar series, section. C. A. H., R, III, 36.
- Dharpawara, *Balaghat* (64 C/1; 21° 53' : 80° 12'), manganese-ore. L. L. F., M, XXXVII, 732.
- Dharwar, *Bombay* (48 M/3; 15° 27' : 75° 1'), Dharwar schists, &c. R. B. F., R, XXI, 44.
- Dhauri (Dharma) Ganga, *Almora* (62 B/7; 30° 28' : 80° 28'), Triassic beds, sections. C. L. G., M, XXIII, 176 (Pls. vii, viii); fauna. C. D., M, XXXVI, 227, 269; glaciers. J. L. G., R, 284, 305 (Pls. xxx, xxxi, xxxviii & xliii).
- Dhechania, *Idar* (46 E/1; 23° 51' : 73° 11'), Mundeti series. C. S. M., M, XLIV, 54.
- Dhela R., *Moradabad* (53 L/13; 28° 55' : 78° 47'), lignite. R. R. S., M, XLI, 115.
- Dhelwa, *Hazaribagh* (72 H/14; 24° 40' 30" : 85° 56'), dolomitic limestone. F. R. M., R, VII, 34; T. H. H., M, XXXIV, 52.
- Dhenodhur hill, *Cutch* (41 E/7; 23° 27' : 69° 20'), supposed volcano. A. B. W., M, IX, 30, 207 (Pl. iv)=Dinodar hill.
- Dhikot, *Punch* (43 F/12; 34° 2' : 73° 34' 30"), *Mastodon* tooth. D. N. W., M, LI, 274, 332.
- Dhipa, *Singhbhum* (73 F/3; 22° 25' 30" : 85° 12'), alluvial gold. V. B., M, XVIII, 143.
- Dhira, *Jodhpur* (45 C/6; 25° 31' 30" : 72° 27'), spherulitic rhyolite. T. D. L., M, XXXV, 66.
- Dhobani, *Singhbhum* (73 J/6; 22° 30' 30" : 86° 26' 30"), copper lodes. E. H. P., R, LXIII, 33; L. L. F., R, LXV, 39.
- Dhobasai, *Singhbhum* (73 F/9; 22° 46' : 85° 34'), contorted mica-schist. J. A. D., M, LIV, 104.
- Dhohitola, *Secni* (55 O/10; 21° 42' 30" : 79° 39'), manganese-ore. H. B. H., R, XLIV, 21.

- Dhok Bhatwari, *Attock* (43 C/15; 33° 29' : 72° 50' 30"), oil seepages. E. H. P., **M**, XL, 402.
- Dhok Chanda, *Jhelum* (43 H/6; 32° 42' : 73° 24'), water-supply. E. H. P., **R**, LXIII, 77; Palæozoic beds, 137.
- Dhok Khundi Dheri, *Attock* (43 C/8; 33° 12' 30" : 72° 24'), L.-M. Siwalik boundary. E. H. P., **M**, XL, 407.
- Dhok Maiki, *Attock* (43 C/11; 33° 25' : 72° 34'), Nummulitic limestone. E. H. P., **M**, XL, 399, 401.
- Dhok Pathan, *Attock* (43 C/8; 33° 8' : 72° 20' 30"), M. Siwalik fauna. G. E. P., **R**, XL, 67; XLIII, 278.
- Dholbagan, *Sibsagar* (83 J/13; 26° 56' : 94° 51'), ferruginous conglomerate, Tipam series. F. R. M., **M**, XII, 296; H. H. H., **R**, XL, 290.
- Dholi hill, *Bhandara* (55 O/14; 21° 32' : 79° 45'), manganese-ore. L. L. F., **M**, XXXVII, 760.
- Dholimarg, *Kashmir* (43 K/10; 33° 40' : 74° 33'), gabbro, Panjal trap. D. N. W., **M**, LI, 219; Gondwara synclinalorium, 315.
- Dholka, *Ahmadabad* (46 B/6; 22° 44' : 72° 26'), boring for water. H. H. H., **R**, XLI, 77.
- Dholki, *Rewah* (63 L/14; 24° 31' : 82° 48'), Bijawar melaphyre. E. V., **M**, XXXI, 73, 86.
- Dholpur, *Central India* (54 F/14; 26° 41' : 77° 54'), Bhandar limestone. H. B. M., **M**, II, 64; F. R. M., **M**, VII, 91; A. M. H., **M**, XLV, 166.
- Dholpur, *Idar* (46 E/2; 23° 42' 30" : 73° 3'), quartz-porphry. C. S. M., **M**, XLIV, 126.
- Dhoni, *Dharwar* (48 M/11; 15° 17' 30" : 75° 43'), crystalline limestone. R. B. F., **R**, VII, 134; quartz reefs. XXI, 50=Doni.
- Dhonkora, *Patiala* (54 A/1; 27° 51' : 76° 3' 30"), marble. P. N. B., **R**, XXXIII, 60.
- Dhoor (Duvvuru), *Cuddapah* (57 J/9; 14° 50' 30" : 78° 39'), slate quarries. W. K., **M**, VIII, 140.
- Dhoramuda, Dhoramanda, *Sambalpur* (64 O/13; 21° 50' : 83° 49'), coal seam. G. F. R., A. R. 1900, 66; boring. **M**, XXXII, 92, 117; analyses of coal, 113; Artesian water. E. V., **M**, XXXII, 77.
- Dhori, *Hazaribagh* (73 E/13; 23° 46' : 85° 59' 30"), colliery. H. H. H., **R**, LII, 51.
- Dhosna, Dhosa, *Cutch* (41 E/11; 23° 20' : 69° 37'), Jurassic beds. W. T. B., **M**, VI, 24; fossils. W. W., **R**, IV, 98; A. B. W., **M**, IX, 200.
- Dhosul (Dhasala), *Burdwan* (73 M/2; 23° 41' : 87° 8' 30"), coal seam. W. T. B., **M**, III, 82; R. R. S., **M**, XLI, 46.
- Dhota (Dhaota), *Jaipur* (54 B/9; 26° 47' 30" : 76° 44'), steatite. A. M. H., **R**, XLVIII, 200.
- Dhow, *Chhindwara* (55 J/12; 22° 10' : 78° 40'), coal seam. E. J. J., **M**, XXIV, 36; R. R. S., **M**, XLI, 94.
- Dhrangadra, *Kathiawar* (41 N/5; 22° 59' 30" : 71° 28'), building stone. F. F., **M**, XXI, 135=Drangadra.
- Dhubri, *Goalpara* (78 F/16; 26° 1' : 89° 59'), earthquake, 1897. R. D. O., **M**, XXIX, 18, 259, 317; aftershocks, 127; fissures, 333; rotation of pillars, 211, 260 (fig.); aftershocks. **M**, XXX, 9; earthquake, 1930. L. L. F., **R**, LXV, 29.

- Dhudial, *Jhelum* (43 C/16; 33° 4' : 72° 58' 30"), water-supply. L. L. F., **R**, LXV, 69.
- Dhule, *Jaipur* (54 B/1; 26° 56' : 76° 9'), Aravalli granite. A. M. H., **R**, LIV, 352; basal conglomerate, Alwar series, 359.
- Dhuleta, *Idar* (46 E/2; 23° 39' 30" : 73° 11'), dip-slope in Delhi quartzite. C. S. M., **M**, XLIV, 88 (fig.).
- Dhulian, *Attock* (43 C/8; 33° 12' : 72° 20' 30"), oilfield. H. H. H., **R**, XLIX, 15; E. H. P., **M**, XL, 406 (Pl. lxxviii).
- Dhumadol, *Rewah* (64 E/15; 23° 22' 30" : 81° 48'), coal seams. T. W. H. H., **M**, XXI, 239.
- Dhumni, *Santal Parganas* (72 P/5; 24° 47' 30" : 87° 29'), fire-clay. M. S., **R**, XXXVIII, 140=Dhamni.
- Dhumtour, *Hazara* (43 F/8; 34° 8' : 73° 16'), Slate series-Tertiary, section. C. S. M., **M**, XXVI, 138 (fig.)=Damtour, Dhamtaur and Dhantaur.
- Dhund, *Punch* (43 K/1; 33° 58' : 74° 10'), limestone, Dogra Slate series. D. N. W., **M**, LI, 229, 298.
- Dhund, *Surguja* (64 I/15; 23° 29' : 82° 53'), coal seam. T. W. H. H., **M**, XXI, 239.
- Dhundhar, *Idar* (46 E/2; 23° 34' 30" : 73° 5' 30"), Ahmednagar sandstone. C. S. M., **M**, XLIV, 138.
- Dhuneeya (Danea), *Hazaribagh* (73 E/9; 23° 48' : 85° 40'), coal seam. T. W. H. H., **M**, VI, 70.
- Dhuniakote, *Naini Tal* (53 O/7; 29° 30' : 79° 27'), iron-ore. A. W. L., **R**, II, 87.
- Dhupghar, *Hoshangabad* (55 J/7; 22° 27' : 78° 23'), Deccan trap sill. L. L. F., **R**, LXV, 98.
- Dhurdurwa R., *Hazaribagh* (73 E/13; 23° 45' 30" : 85° 46'), Raniganj beds. T. W. H. H., **M**, VI, 101; Panchet beds, section, 104.
- Dhurmpooree, *Dhar* (46 N/8; 22° 9' : 75° 21'), Intertrappean fossils. W. T. B., **M**, VI, 292.
- Dhumsala, *Kangra* (52 D/8; 32° 13' : 76° 19'), Himalayan series, section. H. B. M., **M**, III, pt. 2, 62 (fig.)=Dharmsala.
- Dhurmural ka Darwaza, *Jaipur* (54 B/12; 26° 6' : 76° 32'), Gwalior shales. A. M. H., **M**, XLV, 134; L. Vindhyan unconformity, 151; fault-breccia, 175 (fig. & Pl. xxix, fig. 2).
- Dhusi, *Mianwali* (38 P/9; 32° 50' : 71° 43'), Carboniferous limestone. E. H. P., **M**, XL, 433.
- Dhyunda, *Akola* (55 H/1; 20° 53' : 77° 8'), brine wells. W. T. B., **M**, VI, 229, 284=Dahihanda and Dyhunda.
- Dia, *Chobpur* (63 D/9; 24° 51' : 80° 34'), diamond workings. E. V., **R**, XXXIII, 286.
- Diamond Harbour, *24 Parganas* (79 B/4; 22° 11' : 88° 11'), tidal wave, earthquake, 1881. R. D. O., **R**, XVII, 48; deltaic deposits. J. W., **R**, XXIII, 112.
- Diamond I., *Bassein* (86 I/5; 15° 52' : 94° 17'), earthquake, 1897. R. D. O., **M**, XXIX, 51.
- Diapipar, *Rewah* (64 E/7; 23° 26' : 81° 24'), coal seam. T. W. H. H., **M**, XXI, 239.

- Dibah, *Oman* (25 C/6 ; 25° 34' : 56° 15' 30"), igneous rocks, Oman series. G. E. P., **M**, XXXIV, pt. 4, 12, 99 ; sub-recent alluvium, 57.
- Dibdolah, *Sambalpur* (64 O/0 ; 21° 48' : 83° 39'), coal seam. V. B., **R**, VIII, 108 ; W. K., **R**, XVII, 126 ; borings XIX, 215.
- Dibrugarh, *Lakhimpur* (83 I/15 ; 27° 29' : 94° 56'), Cachar earthquake, 1869, T. O., **M**, XIX, 27 ; earthquake, 1897, silting of river. R. D. O., **M**, XXIX, 163.
- Didag, *Sirmur* (53 F/5 ; 30° 50' : 77° 22'), marble, Jutogh series. G. E. P., **M**, LIII, 80 (fig.).
- Didokpin, *Magwe* (85 M/5 ; 19° 48' : 95° 20'), Miocene Unionidæ. E. V., **R**, LI, 371.
- Didwana, *Jodhpur* (45 I/11 ; 27° 24' : 74° 34'), salt. C. A. H., **R**, XIII, 201 ; thenardite. E. V., **R**, XXXI, 109.
- Dig, *Bharatpur* (54 E/7 ; 27° 28' : 77° 20'), Ajabgarh slates. A. M. H., **M**, XLV, 80.
- Digari, *Kalat* (34 N/4 ; 30° 8' : 67° 7'), coal seams. R. R. S., **M**, XLI, 34.
- Digarsai, *Singbhum* (73 J/2 ; 22° 34' 30" : 86° 14'), asbestos. E. H. P., **R**, LXIII, 29.
- Digaroo R., *Lakhimpur* (92 A/1 ; 27° 52' : 96° 1'), alluvial gold. Dalton & Hannay, **M**, I, 91.
- Digboi, *Lakhimpur* (83 M/11 ; 27° 23' : 95° 37' 30"), oilfield. H. H. H., **R**, XL, 289 ; E. H. P., **M**, XL, 295 (Pl. lxii).
- Dighawani, *Ohhindwara* (55 J/16 ; 22° 12' : 78° 49'), coal seam. W. T. B., **R**, XV, 126 ; E. J. J., **M**, XXIV, 25 ; R. R. S., **M**, XLI, 94.
- Digi, *Chamba* (43 P/13 ; 32° 46' : 75° 58'), Zangskar beds. R. L., **M**, XXII, 180.
- Digo Jum, *Hukawng* (92 B/11 ; 26° 16' : 96° 32'), brine spring. L. L. F., **R**, LXV, 63.
- Digrana, *Jodhpur* (45 F/15 ; 26° 24' : 73° 53'), pebble beds. A. M. H., **R**, LXV, 481.
- Dihing R., *Lakhimpur* (83 M/S. E., ; 27° 18' : 95° 40'), coal conglomerates. F. R. M., **M**, XII, 298 ; alluvial gold. J. M. M., **R**, XXXI, 217=Deehing R.
- Diholi, *Rewah* (63 H/15 ; 24° 30' : 81° 50'), Kaimur-Rohtas junction. P. N. D., **M**, XXXI, 160.
- Dihong R., *Lakhimpur* (83 M/5 ; 28° 0' : 95° 25'), alluvial gold. Dalton & Hannay, **M**, I, 92.
- Dihur (Diur), *Chamba* (52 D/2 ; 32° 44' 30" : 76° 3'), trap rocks. C. A. M., **R**, XVI, 40 ; XVIII, 82, 108.
- Dihur (Dahar), *Suket* (53 A/15 ; 31° 25' : 76° 49'), Subathu beds. H. B. M., **M**, III, pt. 2, 89, old moraine. W. T., **R**, VII, 97.
- Dijio, *Idar* (45 H/4 ; 24° 4' : 73° 7'), biotite gneiss. C. S. M., **M**, XLIV, 24 (Pl. ix, fig. 4) ; inclusions of quartzite in gneiss, 26 (figs. & Pl. ix, fig. 5).
- Dikchu, *Sikkim* (78 A/11 ; 27° 24' : 88° 40'), copper-ore. T. H. H., **R**, XXXIX, 238 ; H. H. H., **R**, XLII, 75.

- Dikha, *Burdwan* (73 I/14; 23° 33' : 86° 54' 30"), Panchet bone bed. W. T. B., **M**, III, 129.
- Dikhu R., *Naga Hills* (83 J/13; 26° 45' : 94° 47'), coal and petroleum. F. R. M., **M**, XII, 293, 337, 358; R. R. S., **R**, XXXIV, 224, 234 (Pl. xxvii); E. H. P., **M**, XL, 285.
- Dikrang R., *Daphla Hills* (83 F/13; 26° 56' : 93° 54'), Damuda coal. R. R. S., **M**, XLI, 15.
- Dilangsao R., *Nowgong* (83 G/5; 25° 53' : 93° 18'), coal seam. F. H. S., **M**, XXVIII, 85; R. R. S., **M**, XLI, 21.
- Dilewali, *Shahpur* (43 D/2; 32° 38' 30" : 72° 10'), oil seepage. E. H. P., **M**, XI, 437.
- Dilheri, *Narsinghpur* (55 N/1; 22° 47' : 79° 3'), Mahadeva boundary fault. J. G. M., **M**, II, 234 (fig.); fault-breccia, 247.
- Diliari, *Buner* (43 B/14; 34° 31' 30" : 72° 48' 30"), garnetiferous schist. C. S. M., **M**, XXVI, 60.
- Diljaba hill, *Jhelum* (43 H/1; 32° 52' : 73° 9'), faults. A. B. W., **M**, XIV, 54; structure, 123 (Pl. xi, fig. 10); E. H. P., **R**, LXIII, 129.
- Dillour, *Jhelum* (43 D/14; 32° 40' : 72° 59'), *Conularia* bed, Olive series. W. W., **R**, XIX, 24.
- Dilma, *Garo Hills* (78 K/9; 25° 52' : 90° 39' 30"), earthquake, 1897, lakelets. R. D. O., **M**, XXIX, 80, 142 (Pl. xvi).
- Dilsurjam, *Ranchi* (73 F/9; 22° 53' : 85° 33'), pencil structure in epidiorite. J. A. D., **M**, LIV, 50, 82.
- Dilwal, *Jhelum* (43 D/14; 32° 42' : 72° 53'), prevalence of earthquakes. A. B. W., **M**, XIV, 175.
- Dilwara, *Mewar* (45 H/9; 24° 46' 30" : 73° 45'), Delhi-Aravalli boundary. E. H. P., **R**, LX, 109.
- Dim Rud, *Persia* (25 A/7; 27° 23' : 56° 16'), hippuritic limestone. G. E. P., **M**, XLVIII, pt. 2, 61, 98.
- Dina, *Jhelum* (43 G/12; 33° 2' : 73° 35'), water-supply. L. L. F., **R**, LXV, 69.
- Dinajpur, *Bengal* (78 C/10; 25° 38' : 88° 38'), Cachar earthquake, 1869. T. O., **M**, XIX, 32; Srimangal earthquake, 1918. M. S., **M**, XLVI, 28.
- Dindigul, *Madura* (58 F/15; 10° 22' : 77° 59'), tscheffkinitite (?). L. L. F., **M**, XXXVII, 203.
- Dindur, *Dharwar* (48 M/11; 15° 18' : 75° 40'), pyritous argillites. J. M. M., **R**, XXXIV, 102.
- Dinghie (Diengei) hill, *Khasi Hills* (78 O/14; 25° 36' 30" : 91° 48'), coal seams. P. N. B., **R**, XXXI, 35 (Pl. iii); R. R. S., **M**, XLI, 29.
- Dingley Dell estate, *Wynaad* (58 A/6; 11° 30' 30" : 76° 24'), gold. H. H. H., **M**, XXXIII, pt. 2, 3.
- Dinhalli, *Coimbatore* (58 E/5; 11° 56' : 77° 20' 30"), gold workings. H. H. H., **M**, XXXIII, pt. 2, 64.
- Dinodar hill, *Cutch* (41 E/7; 23° 27' : 69° 20'), volcanic focus. W. T. B., **R**, V, 91=Dhenodhur hill.
- Diopani, *Sibsagar* (83 M/8; 27° 7' 30" : 95° 19'), coal seam. R. R. S., **R**, XXXIV, 213.
- Diori, *Bhopal* (55 I/12; 23° 7' : 78° 41'), Rewah sandstone. F. R. M., **M**, VII, 76.

- Diot, *Kangra* (52 D/16; 32° 3' : 76° 49'), magnetic iron-ore. H. B. M., **M**, III, pt. 2, 59.
- Diphu R., *Nowgong* (83 G/5; 25° 56' : 93° 27'), coal seams. F. H. S., **M**, XXVIII, 85; analysis, 93; R. R. S., **M**, XLI, 21.
- Diphupani, *Naga Hills* (83 G/14; 25° 43' : 93° 49'), Miocene fossils. R. D. O., **M**, XIX, 227.
- Dipkai, *Gara Hills* (78 G/14; 25° 43' : 89° 58'), boring site for coal. H. B. M., **R**, VII, 61; R. R. S., **M**, XLI, 23.
- Dir, *N. W. F. Prov.* (38 M/16; 35° 12' : 71° 53'), quartzite and slate. H. H. H., **R**, XLV, 276.
- Dirgi, *Sibi* (34 N/7; 30° 19' : 67° 29' 30"), coal seams. W. K., **R**, XXII, 149; C. L. G., **R**, XXVI, 127; R. R. S., **M**, XLI, 32.
- Disai R., *Sibsagar* (83 J/6; 26° 45' : 94° 16'), coalfield. F. R. M., **M**, XII, 344; R. R. S., **M**, XLI, 21; oil seepage. E. H. P., **M**, XL, 309.
- Disang Mukh, *Sibsagar* (83 I/12; 27° 4' : 94° 33'), earthquake, 1897, silting of river. R. D. O., **M**, XXIX, 163.
- Disang R., *Lakhimpur* (83 M/8; 27° 12' : 95° 18'), Disang series. F. R. M., **M**, XII, 286; coal and petroleum, 320, 358; E. H. P., **M**, XL, 288 (Pl. lxi); coalfield. R. R. S., **R**, XXXIV, 206, 231 (Pl. xxv); **M**, XLI, 19.
- Disau, *Dehra Dun* (53 F/14; 30° 42' 30" : 77° 48'), Blaini and Simla series. G. E. P., **M**, LIII, 50.
- Dishargarh, *Burdwan* (73 I/14; 23° 41' 30" : 86° 50'), coal seam. R. R. S., **M**, XLI, 45, 47=Deser Gerh.
- Dissoma R., *Nowgong* (83 G/5; 25° 57' : 93° 22'), lignite. R. R. S., **M**, XLI, 22.
- Diu, *Kathiawar* (41 L/14; 20° 43' : 70° 59'), miliolite. F. F., **M**, XXI, 126.
- Diwangiri, *Kamrup* (78 N/5; 26° 52' : 91° 29'), graphitic schist. G. E. P., **R**, XXXIV, 25.
- Diyang R., *Cachar* (83 C/14; 25° 35' : 93° 0'), lignite. R. R. S., **M**, XLI, 22.
- Dizak, *Persia* (25 A/7; 27° 23' 30" : 56° 17'), hippuritic limestone. G. E. P., **M**, XLVIII, pt. 2, 61, 98.
- Doab, *Afghanistan* (33 M/14; 35° 34' : 67° 50'), Jurassic plant beds. C. L. G., **R**, XIX, 248; coal seam, 249; R. R. S., **M**, XLI, 13.
- Doab-i-Mokhzarin, *Afghanistan* (33 M/15; 35° 17' : 67° 59'), Doab series. H. H. H., **M**, XXXIX, 28, 62.
- Doarblai, *Jaintia Hills* (83 C/3; 25° 23' : 92° 9'), granite. P. N. B., **A. R.**, 1902, 27.
- Doari, *Hazaribagh* (72 H/4; 24° 8' : 85° 9'), hot spring, sulphurous. L. L. F., **R**, LIII, 291.
- Doarpur, *Raipur* (64 L/7; 20° 23' : 82° 16'), Vindhyan quartzites. V. B., **R**, X, 174.
- Dobandi, *Afghanistan* (38 G/5; 33° 58' : 69° 19'), plant beds with coal. C. L. G., **R**, XXV, 79; R. R. S., **M**, XLI, 11; Rhætic limestone. H. H. H., **M**, XXXIX, 79.
- Doberan (N.), *Rawalpindi* (43 G/6; 33° 37' : 73° 26'), Kamial anticline. D. N. W., **M**, LI, 355.
- Doberan (S.), *Rawalpindi* (43 G/11; 33° 27' : 73° 30' 30"), Siwalik syncline. D. N. W., **M**, LI, 361.

- Dobhara, *Idar* (46 A/13 ; 23° 58' 30" : 72° 57'), quartz veins. C. S. M., **M**, XLIV, 130.
- Dobrana, *Burdwan* (73 M/2 ; 23° 41' : 87° 10' 30"), coal seam. R. R. S., **M**, XLI, 46.
- Dobri, *Garhwal* (53 N/4 ; 30° 12' 30" : 79° 5'), limestone. C. S. M., **R**, XXI, 11.
- Dobriah, *Garhwal* (53 K/14 ; 29° 42' 30" : 78° 50' 30"), Tal beds, unconformity. C. S. M., **R**, XVIII, 75.
- Dobu, *Garo Hills* (78 K/10 ; 25° 34' : 90° 43'), earthquake, 1897, lakelet. R. D. O., **M**, XXIX, 155.
- Dobukhol, *Garo Hills* (78 K/11 ; 25° 28' 30" : 90° 43' 30"), earthquake, 1897, lakelet. R. D. O., **M**, XXIX, 152.
- Doche, *Simla* (53 E/4 ; 31° 9' : 77° 5'), carbonaceous bed, Chail series. G. E. P., **M**, LIII, 93.
- Döchen, *Tibet* (77 H/8 ; 28° 8' : 89° 18'), Jurassic fossils. H. H. H., **R**, XXXII, 166 ; **M**, XXXVI, 158.
- Dochi, *Patiala* (53 E/4 ; 31° 2' 30" : 77° 1'), Blaini beds. C. A. M., **R**, X, 207 ; Subathu beds. G. E. P., **M**, LIII, 95.
- Dod Kittadhalli, *Chitaldrug* (57 C/5 ; 13° 57' : 76° 22'), manganiferous iron-ore. L. L. F., **M**, XXXVII, 1124.
- Doda peak, *Punch* (43 K/1 ; 33° 51' : 74° 13'), Dogra Slates. D. N. W., **M**, LI, 298.
- Dodabetta, *Nilgiri* (58 A/11 ; 11° 24' : 76° 44'), iron-ore. H. F. B., **M**, I, 219 ; kaolin, 236 ; marine escarpment, 239 (fig.).
- Dodchi, *Wardha* (55 L/15 ; 20° 18' : 78° 46'), Intertrappean limestone, fossiliferous. W. T. B., **R**, I, 64.
- Doderi, *Pottangi* (65 J/14 ; 18° 40' : 82° 50'), laterite. C. S. F., **M**, XLIX, 186.
- Dodhani (Dudhani), *Santal Parganas* (72 P/7 ; 24° 16' : 87° 24'), kaolin. M. S., **R**, XXXVIII, 135.
- Dodrampur, *Tumkur* (57 C/11 ; 13° 24' : 76° 41'), Dharwar limestone and schists. R. B. F., **R**, XXI, 54.
- Dodvada, *Rajpipla* (46 G/2 ; 21° 32' : 73° 6'), gypsum. P. N. B., **R**, XXXVII, 186.
- Dofali, *Punch* (43 K/6 ; 33° 39' 30" : 74° 23'), Dogra Slates. D. N. W., **M**, LI, 229, 310.
- Dogetha, *Jaipur* (54 A/8 ; 27° 7' 30" : 76° 16'), steatite. H. H. H., **R**, XLIII, 21.
- Doguh, *Hazara* (43 F/7 ; 34° 23' : 73° 20'), gneissose granite, petrology. C. S. M., **M**, XXVI, 70 ; dolerite, 79.
- Doigrung (Daigrang), *R., Sibsagar* (83 F/15 ; 26° 25' : 93° 50'), coal and limestone. T. D. L., **R**, XVIII, 31 ; R. R. S., **M**, XLI, 23 ; analysis of coal. G. S. L., **R**, XXIV, 135.
- Dokachi, *Dacca* (79 I/6 ; 23° 30' : 90° 16'), meteorite. L. L. F., **R**, XXXV, 68 (Pls. i-iii) ; J. C. B., **M**, XLIII, 192.
- Dokri, *Tehri* (53 J/1 ; 30° 53' 30" : 78° 8'), Bawar quartzite-gneiss boundary. C. S. M., **R**, XX, 29.
- Dol, *Rewah* (63 L/3 ; 24° 23' : 82° 11'), L. Vindhyan outlier. R. D. O., **M**, XXXI, 129.

- Dolari, *Betul* (55 J/4; 22° 10' : 78° 1' 30"), coal area. H. B. M., **R**, VIII, 77 (Pl. ii); R. R. S., **M**, XLI, 93; L. Gondwana plants. O. F., **R**, XII, 81 =Dulahra.
- Doldolli, *Santal Parganas* (72 P/12; 24° 6' : 87° 32'), Dubrajpur beds, section. V. B., **M**, XIII, 201.
- Doliamb, *Pottangi* (65 J/14; 18° 39' : 82° 52'), laterite. T. H. H., **R**, XXXII, 143.
- Doloi (Dhalai), *Sylhet* (78 P/16; 24° 13' : 91° 50'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 13 (Pl. iii).
- Domahani, *Hazaribagh* (72 L/8; 24° 10' : 86° 17'), Talchir plants. O. F., **R**, X, 137.
- Domaiipali, *Patna State* (64 P/1; 20° 49' : 83° 1'), graphite. V. B., **R**, X, 183; L. L. F., **R**, LIII, 270.
- Domalgiri, *Garo Hills* (78 K/2; 25° 31' 30" : 90° 7'), nummulitic limestone. H. B. M., **M**, VII, 166=Domulgiri.
- Domanda, *D. I. Khan* (39 I/2; 31° 35' : 70° 12'), sulphur. T. D. L., **R**, XXVI, 96.
- Domapal (Dongapani), *Singhbhum* (73 J/11; 22° 27' : 86° 33' 30"), potstone. V. B., **M**, XVIII, 148.
- Domari Tola, *Ranchi* (73 F/9; 22° 57' 30" : 85° 35'), tuff, Iron Ore series. J. A. D., **M**, LIV, 69.
- Domchanch, *Hazaribagh* (72 H/11; 24° 28' 30" : 85° 42'), mica. T. H. H., **M**, XXXIV, 45; zircon. W. K. C., **R**, LXIV, 312.
- Domeli, *Jhelum* (43 G/8; 33° 1' : 73° 21'), vertebrate fossils. A. B. W., **R**, X, 119; G. E. P., **R**, XLV, 4; nummulitic limestone. D. N. W., **M**, LI, 264; Kamliar sandstone, 281; brine springs, sulphurous. E. H. P., **R**, LXIII, 128.
- Domniwala, *Mianwali* (38 P/6; 32° 32' 30" : 71° 20'), oilfield. E. H. P., **M**, XL, 424 (Pls. lxxxv, lxxxvi)=Basti Algad.
- Domulgiri, *Garo Hills* (78 K/2; 25° 31' 30" : 90° 7'). nummulitic limestone. H. B. M., **R**, I, 15=Domalgiri.
- Donga Kohrod, *Bilaspur* (64 K/5; 21° 50' : 82° 26'), meteorite. J. C. B., **M**, XLIII, 194.
- Dongagaon, *Narsinghpur* (55 N/1; 22° 58' 30" : 79° 15'), section of alluvium. W. T., **M**, II, 282.
- Dongan La, *Rupshu* (52 L/9; 32° 48' : 78° 41'), granite. H. H. H., **M**, XXXVI, 97.
- Dongar Chikhli, *Chhindwara* (55 J/16; 22° 12' : 78° 45'), colliery. H. H. H., **R**, LII, 54; coal, analysis. G. V. H., **R**, LIX, 176.
- Dongargaon (N.), *Chanda* (55 L/15; 20° 19' 30" : 78° 57' 30"), Vindhyan shales. T. W. H. H., **M**, XIII, 13.
- Dongargaon (S.), *Chanda* (55 P/4; 20° 12' 30" : 79° 5'), Lameta fish remains. T. W. H. H., **M**, XIII, 90; A. Smith Woodward, **R**, XXIII, 23; T. H. H., **R**, XXXVIII, 30; C. A. Matley, **R**, LIII, 159.
- Dongaria, *Chhindwara* (55 J/12; 22° 11' 30" : 78° 33' 30"), colliery. J. C. B., **R**, LVII, 61; analysis of coke. G. V. H., **R**, LIX, 186.
- Dongarkho, *Narsinghpur* (55 J/13; 22° 46' : 78° 53'), trap dyke. H. B. M., **M**, X, 179.



- Dongartal, *Nagpur* (55 O/6; 21° 36' : 79° 21'), dolomitic marble. E. H. P., **R**, LIX, 81.
- Dongri Buzurg, *Bhandara* (55 O/10; 21° 33' : 79° 42'), manganese-ore. L. L. F., **M**, XXXVII, 751.
- Dongria, *Mewar* (45 P/1; 24° 55' 30" : 75° 10'), meteorite. A. L. C., **R**, LXI, 319 (Pl. xxi, fig. 3).
- Dongtse, *Tibet* (77 G/8; 29° 1' : 89° 25'), serpentine. H. H. H., **R**, XXXII, 169=Drongtse.
- Dongur-Parasia, *Chhindwara* (55 J/16; 22° 11' 30" : 78° 46'), coal seam. E. J. J., **M**, XXIV, 28; R. R. S., **M**, XLI, 94=Parassia.
- Doni, *Dharwar* (48 M/11; 15° 17' 30" : 75° 43'), calcareous breccia. J. M. M., **R**, XXXIV, 102=Dhoni.
- Donimale, *Sandur* (57 A/12; 15° 5' : 76° 37'), Dharwar syncline. R. B. F., **M**, XXV, 112.
- Donnakuttahalli, *Salem* (57 H/16; 12° 0' 30" : 77° 54'), corundum. C. S. M., **R**, XXX, 119.
- Donu, *Patiala* (53 F/1; 30° 58' : 77° 10' 30"), talc-schist, Chail series. G. E. P., **M**, LIII, 89.
- Donuddia (Deonadia), *Palamau* (73 A/14; 23° 40' : 84° 49' 30"), overthrust fold. A. J., **M**, LII, 50 (fig.).
- Doodae (Dudhai), *Cutch* (41 I/3; 23° 19' : 70° 7'), Jurassic plants. A. B. W., **M**, IX, 142; O. F., **R**, IX, 34.
- Doodha, *Hazara* (43 B/16; 34° 11' : 72° 55'), Infra-Trias. C. S. M., **M**, XXVI, 234.
- Doodkooroo (Duddukuru), *Kistna* (65 G/12; 17° 2' 30" : 81° 36'), Lameta fossils. W. K., **R**, VII, 159.
- Doomabhita, *Santal Parganas* (72P/10; 24° 40' : 87° 30' 30"), fire-clay. M. S., **R**, XXXVIII, 142.
- Doomaro, *Palamau* (73 A/14; 23° 41' : 84° 54'), Barakar-Raniganj stages, section. A. J., **M**, LII, 57.
- Doomkul, *Rajpipla* (46 G/14; 21° 44' : 73° 50'), Cretaceous beds. W. T. B., **M**, VI, 209.
- Doomree, *Hazaribagh* (73 E/1; 23° 56' : 85° 3' 30"), Talchirs. A. J., **M**, LII, 13; Karharbari stage, 21.
- Doomureea, *Drug* (64 G/1; 21° 51' : 81° 5'), felsites. P. N. B., **R**, XXI, 56.
- Doongrec, *Manbhum* (73 I/6; 23° 42' : 86° 23'), coal seam. T. W. H. H., **M**, V, 307.
- Dooreha, *Jaso* (63 D/7; 24° 27' : 80° 27' 30"), laterite. H. B. M., **M**, II, 82.
- Doorgowtee (Durgauti) R., *Shahabad* (63 P/10; 24° 38' : 83° 44'), L. Vindhyan limestone. F. R. M., **M**, VII, 41; Bijaigarh shales, 49.
- Doorsari, Doorserai (Dursendi), *Gwalior* (54 F/16; 26° 1' : 77° 56' 30"), pre-Vindhyan erosion of Gwalior. F. R. M., **M**, VII, 58 (fig.); C. A. H., **R**, III, 39 (fig.).
- Do-poulan, *Persia* (10 I/9; 31° 56' : 50° 41'), *Loftusia*. G. E. P., **M**, XXXIV, pt. 4, 82.
- Doptara, *Adilabad* (56 M/5; 19° 48' : 79° 21'), boring for coal. T. W. H. H., **M**, XIII, 57.

- Dora R., *Lakhimpur* (92 A/1; 27° 55': 96° 13'), kaolin. Dalton and Hannay, **M. I**, 91.
- Dorampi R., *Persia* (24 L/15; 28° 25': 58° 56'), lava flows. G. H. T., **R. LIII**, 69.
- Dorawa R., *Cutch* (41 I/6; 23° 36': 70° 26'), reptilian bones. A. B. W., **M. IX**, 129.
- Dore R., *Hazara* (43 F/4; 34° 3': 73° 7'), gorge in Triassic limestone. A. B. W., **R. XII**, 209; coal seam. C. S. M., **R. XXIII**, 267 (Pls. xxiii, xxiv); **M. XXVI**, 288; **R. R. S.**, **M. XLI**, 112.
- Dorikun pass, *Kashmir* (43 N/1; 34° 54': 75° 9'), granite. R. L., **R. XIV**, 4; inversion of Panjal on Kuling beds. **M. XXII**, 154; Orbitolina limestone. E. V., **R. XXXVI**, 314; H. D., **R. LVIII**, 349.
- Dorkajaria, *Ranchi* (73 F/1; 22° 54' 30": 85° 11' 30"), hornblende-schist. L. A. N., **R. LXV**, 506 (Pl. xxvii, fig. 3); analysis, 509.
- Doronta, *Afghanistan* (38 J/7; 34° 28': 70° 22'), crystalline limestone. C. L. G., **R. XXV**, 71=Daronta.
- Doshak range, *Afghanistan* (29 F/12; 34° 5': 61° 33'), structure. C. L. G., **R. XVIII**, 62; **XIX**, 50; H. H. H., **M. XXXIX**, 7.
- Doshi, *Afghanistan* (38 A/10; 35° 37': 68° 41'), Red Grit and Cretaceous beds. H. H. H., **M. XXXIX**, 65.
- Doshi (Dusi), *N. Arcot* (57 P/9; 12° 46' 30": 79° 40' 30"), Rajmahal plants. R. B. F., **R. XII**, 201.
- Dosi hill, *Patiala* (53 D/4; 28° 3' 30": 76° 2'), granite, petrology. C. A. M., **R. XVII**, 101.
- Dothak, *Tibet* (78 E/2; 27° 37': 89° 5'), Triassic beds (?). H. H. H., **R. XXXII**, 162; **M. XXXVI**, 141.
- Dotoi (Dwatoi), *Waziristan* (38 H/9; 32° 52' 30": 69° 33'), nummulitic limestone. F. H. S., **R. XXVIII**, 109; igneous rocks, petrology. H. H. H., **R. XXIX**, 65, 67; calamine-smithsonite, 69.
- Dourawa, *Cutch* (41 I/13; 23° 51' 30": 70° 45'), Jurassic-sub-nummulitic beds, section. A. B. W., **M. IX**, 113.
- Douri, *Betul* (55 F/16; 22° 14': 77° 57'), fault. H. B. M., **R. VIII**, 81.
- Dowdeswell's I., *Cuttack* (73 L/15; 20° 24': 86° 47'), monazite. E. H. P., **R. LVIII**, 30.
- Dowhat (Dahwot), *Kashmir* (43 O/5; 33° 55' 30": 75° 16'), Fenestella series. C. S. M., **R. XXXVII**, 323; **XL**, 228 (Pl. xxxi, fig. 2).
- Dowlaiswaram, *Godavari* (65 H/13; 16° 57': 81° 46' 30"), sandstone quarries. W. K., **M. XVI**, 250.
- Dowutta, *Hazara* (43 F/7; 34° 16' 30": 73° 27'), gypsum. C. S. M., **M. XXVI**, 287.
- Dozgan Mts. (Kuh-i-Khamir), *Persian Gulf* (18 M/8; 27° 10': 55° 23'), Nummulitic series. G. E. P., **M. XXXIV**, pt. 4, 102.
- Draba, (Daraba) *Punch* (43 K/6; 33° 36': 74° 18' 30"), Nummulitic limestone. R. L., **R. IX**, 159; E. H. P., **M. XL**, 440.
- Draj Bent, *Bolan Pass* (34 O/6; 29° 31': 67° 30'), sulphur. G. H. T., **R. XXXVIII**, 214.
- Dram, *Makran* (31 K/11; 25° 27': 62° 36'), Makran series, mollusca. E. V., **M. L**, 29.

- Drang, *Mandi* (53 A/13; 31° 49' : 76° 57'), salt mines. H. B. M., **M**, III, pt. 2, 60; E. H. P., **M**, XL, 442; **R**, LIII, 19; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 48=Darang.
- Drang, *Miranzai* (38 O/2; 33° 38' 30" : 71° 2'), Cretaceous beds, carbonaceous shales. C. L. G., **R**, XXV, 87. R. R. S., **M**, XLI, 12.
- Drangadra, *Kathiawar* (41 N/5; 22° 59' 30" : 71° 28') freestone. C. S. M., **M**, XLIV, 142=Dhrangadra.
- Drangkhar, *Spiti* (52 L/4; 32° 5' 30" : 78° 13'), Kuling series. F. S., **M**, V, 25=Dankhar.
- Dras, *Ladakh* (43 N/15; 34° 26' : 75° 46'), Triassic limestone. F. S., **M**, V, 349; C. D., **M**, XXXVI, 229, 268; Panjal slates. R. L., **R**, XII, 20; XIII, 27; old moraines. XII, 30; Tertiary beds (?) and Carbo-Trias. XIV, 18; river terraces. **M**, XXII, 57; Tertiary beds (?), 115; supra-Kuling beds, 148; 'central gneiss', 318; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 187.
- Dredhak R., *Sind* (35 M/7; 27° 28' : 67° 20'), Gaj-Manchhar passage beds. W. T. B., **M**, XVII, 84.
- Drepung, *Tibet* (77 O/2; 29° 41' : 91° 5'), Cretaceous. H. H. H., **M**, XXXVI, 169.
- Drigh Road, *Karachi* (35 P/1; 24° 53' : 67° 7'), boring in Gaj beds. H. C., **R**, LX, 157 (Pl. xiii).
- Drongkhyia (Donkya) La, *Tibet* (78 A/13; 27° 59' : 88° 47'), Jurassic beds (?). H. H. H., **M**, XXXVI, 149.
- Drongtse, *Tibet* (77 G/8; 29° 1' : 89° 25'), diabaso. H. H. H., **M**, XXXVI, 159, 178=Dongtse.
- Drosh, *Chitral* (38 M/14; 35° 33' : 71° 48'), earthquake, 1912. J. C. B., **M**, XLII, 75 (note); Orbitolina limestone. H. H. H., **R**, XLV, 279; E. H. P., **R**, LV, 38; LVI, 47; H. D., **R**, LVIII, 349.
- Drug, *Loralai* (39 J/1; 30° 51' : 70° 11'), *Nummulites*. W. L. F. N., **R**, LIX, 131, 134; *Discocyclina*, 147, 150.
- Drungi Banda, *Kohat* (38 O/3; 33° 16' 30" : 71° 13'), Nummulitic series, section. A. B. W., **M**, XI, 229 (Pl. v, fig. 27); salt quarries. H. W., **M**, XI, 319.
- Drunken Sailor Rocks, *Sandoway* (85 J/2; 18° 33' : 94° 13'), mud volcano. J. C. B., **R**, XLII, 278 (Pl. xliii).
- Duarparam, *Singhbhum* (73 F/9; 22° 45' 30" : 85° 34'), granite-gneiss. J. A. D., **M**, LIV, 102; copper belt, 159.
- Dubari, *Rewah* (63 H/12; 24° 0' 30" : 81° 31' 30"), weathering of Mahadeva sandstones. T. W. H. H., **R**, XIV, 135.
- Dubarghar (Dobargar), *Chitral* (42 D/14; 36° 41' : 72° 55'), limestone. H. H. H., **R**, XLV, 289.
- Dubauli, *Muzaffarpur* (72 G/6; 25° 40' : 85° 20'), geodetic station. R. D. O., **M**, XLII, 220.
- Dubchola, *Korea* (64 I/8; 23° 9' 30" : 82° 23' 30"), coal seam. T. W. H. H., **M**, XXI, 239; Barakar-Talchir boundary. L. L. F., **M**, XLI, 168; coal seam, 221.
- Dubchururia, *Burdwan* (73 M/2; 23° 35' : 87° 13' 30"), Panchet beds. E. H. P., **R**, LXII, 138.
- Dubian, *Kashmir* (43 K/10; 33° 40' 30" : 74° 40'), Gondwana outlier. D. N. W., **M**, LI, 317.

- Dubpani, *Korea* (64 I/8; 23° 11': 82° 22'), concretions of lithomarge in coal. L. L. F., **M**, XLI, 187; coal seam, 201-4, 225.
- Dubrajpur hill, *Santal Parganas* (72 P/7; 24° 24': 87° 27'), Mahadeva series. V. B. **M**, XIII, 198.
- Dubrog, *Mandi* (53 A/10; 31° 41' 30": 76° 44'), Bilaspur fault. H. B. M., **M**, III, pt. 2, 147.
- Duching, *Garo Hills* (78 K/11; 25° 18': 90° 30' 30"), Tertiary fossils. T. D. L., **R**, XX, 43.
- Duda, *Persia* (17 C/9; 29° 45' 30": 52° 42'), hippuritic limestone. G. E. P., **M**, XXXIV, pt. 4, 75.
- Dudatoli Mt. (Musa-ka-Kotha), *Garhwal* (53 N/4; 30° 5': 79° 12'), structure. C. S. M., **R**, XX, 135 (Pl. ix).
- Dudgai, *Kashmir* (43 J/14; 34° 41': 74° 55'), Carboniferous beds (?). R. L., **R**, XIV, 3.
- Dudha Pat, *Ranchi* (73 A/11; 23° 25': 84° 30' 30"), bauxite. C. S. F., **M**, XLIX, 171, 174.
- Dudhai, *Gwalior* (54 G/9; 25° 50' 30": 77° 38'), calcareous shales, Jhiri stago. F. R. M., **M**, VII, 71.
- Dudham, *Sirmur* (53 F/1; 30° 53': 77° 14'), Jaunsar overthrust. G. E. P., **M**, LIII, 12 seq. (figs.).
- Dudhara, *Chhindwara* (55 K/14; 21° 30": 78° 53'), rose-quartz. L. L. F., **M**, XXXVII, 212; gondite, 801; **R**, XXXIII, 176, 214.
- Dudhi R., *Chhindwara* (55 J/10; 22° 32': 78° 43'), Denwa beds. H. B. M., **M**, X, 153; borings for coal. **R**, VIII, 68; XI, 7; E. J. J., **M**, XXIV, 10; R. R. S., **M**, XLI, 91.
- Dudhia hill, *Ranchi* (73 A/10; 23° 36': 84° 34'), laterite. C. S. F., **M**, XLIX, 168.
- Dudkur, *Kistna* (65 G/12; 17° 2' 30": 81° 35' 30"), Intertrappean limestone. W. K., **M**, XVI, 238.
- Dudmatia Pat, *Ranchi* (73 A/11; 23° 29': 84° 36'), bauxite. C. S. F., **M**, XLIX, 169.
- Dueria, *Rewah* (63 H/4; 24° 7': 81° 2'), Kheinjua limestone. P. N. D., **M**, XXXI, 151.
- Dugar, *Jodhpur* (45 B/11; 26° 17': 72° 39' 30"), rhyolite-breccia. T. D. L., **M**, XXXV, 47; L. L. F., **R**, XXXIV, 160.
- Duggi, *Korea* (64 I/8; 23° 5' 30": 82° 27'), coal seams. L. L. F., **M**, XLI, 211.
- Dugla, *Korea* (64 I/3; 23° 25': 82° 4'), coal seam. T. W. H. H., **M**, XXI, 196, 239.
- Dugni, *Saraikela* (73 F/13; 22° 45' 30": 85° 59'), copper-ore. V. B., **R**, III, 96.
- Dugrian, *Punch* (43 K/6; 33° 37' 30": 74° 27'), Gondwana outlier. D. N. W., **M**, LI, 315.
- Dugshai (Dagshai), *Simla* (53 F/1; 30° 53': 77° 3'), Subathu beds. H. B. M., **M**, III, pt. 2, 12; water-supply, 181.
- Duhoo (Dahu), *Hazaribagh* (73 A/13; 23° 47' 30": 84° 55'), Raniganj stage, section. A. J., **M**, LII, 129.
- Dukhan (Jebel), *Persian Gulf* (11 J/12; 26° 2': 50° 33'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 113 seq. (fig.).
- Dukhtar pass, *Persia* (24 B/12; 30° 0' 30": 56° 44'), Upper Cretaceous beds. G. E. P., **M**, XLVIII, pt. 2, 67.

- Duki, *Loralai* (39 B/12; 30° 9' : 68° 34'), coal seams. R. D. O., R, XXV, 29; R. R. S., M, XLI, 31.
- Dukkun, *Hazara*, (43 G/5; 33° 59' : 73° 17'), Trias-Cretaceous beds. C. S. M., M, XXVI, 198 (fig.).
- Dukri, *Singhbhum* (73 F/9; 22° 48' : 85° 38'), greisenised schists. J. A. D., M, LIV, 55.
- Dukri hill, *Balaghat* (64 B/8; 22° 4' : 80° 27'), bauxite. C. S. F., M, XLIX, 136.
- Dul, *The, Chamba* (52 D/7; 32° 29' 30" : 76° 26'), old lake basin. C. A. M., R, XVIII, 87.
- Dulab, (Dulubzar), *Persian Gulf* (18 N/6; 26° 38' : 55° 23'), boundary, Fars-Hormuz series. G. E. P., M, XLVIII, pt. 2, 33.
- Dulahra, *Betul* (55 J/4; 22° 10' : 78° 1' 30"), coal seams. E. H. P., R, LIX, 88 =Dolari.
- Dulal, *Seoni* (55 O/9; 21° 57' : 79° 37'), lithomarge. R. C. B., R, XLVIII, 207; quartz grains in laterite, 209.
- Dulapur, *Seoni* (55 O/10; 21° 42' : 79° 37' 30"), manganese-ore. H. H. H., R, XLIV, 21.
- Dulchipore, *Saugor* (54 P/3; 24° 15' : 79° 1'), L. Vindhyan sandstone. H. B. M., M, II, 30.
- Dulha hill, *Bilaspur* (64 J/8; 22° 5' : 82° 24'), Vindhyan limestone and quartzites. W. K., R, XVIII, 180.
- Dullipore, *Bijawar* (54 P/3; 24° 26' : 79° 8' 30"), junction of granite and Somri beds. H. B. M., M, II, 34.
- Dulmial, *Jhelum* (43 D/14; 32° 44' : 72° 55' 30"), boring site for water. L. L. F., R, LXV, 70.
- Dulog, *Chamba* (43 P/14; 32° 34' : 75° 55'), iron-ore. H. B. M., M, III, pt. 2, 65.
- Dulputpore, *Saugor* (54 P/4; 24° 8' : 79° 1'), laterite. H. B. M., M, II, 79.
- Dulunga, *Gangpur* (64 O/13; 21° 57' : 83° 47'), coal seam. V. B., R, VIII, 107; W. K., R, XVII, 126.
- Dulwan, *Punch* (43 K/6; 33° 37' : 74° 27' 30"), dolerite sill. D. N. W., M, LI, 220, 315.
- Dumagudem, *Godavari* (65 C/13; 17° 51' : 80° 56'), coal exploration. W. T. B., R, IV, 59=Dummagudem.
- Duman, *Yasin* (42 H/7; 36° 20' 30" : 73° 22'), Panjal trap. H. H. H., R, XLV, 296.
- Dumarbahal, *Gangpur* (73 B/4; 22° 14' 30" : 84° 7'), diorite. E. H. P., R, LXIII, 85.
- Dumardiha, *Singhbhum* (73 F/10; 22° 41' 30" : 85° 41'), sheared epidiorite. J. A. D., M, LIV, 84.
- Dumarkachar, *Rewah* (64 I/4; 23° 10' : 82° 7'), coal seams. T. W. H. H., M, XXI, 197, 239; R. R. S., M, XLI, 78.
- Dumaro, *Bonai* (73 G/1; 21° 50' : 85° 6' 30"), Iron-ore series. E. H. P., R, LXI, 95.
- Dumas, *Surat* (46 C/12; 21° 6' : 72° 42'), water-supply. W. T. B., R, VIII, 51.
- Dumka, *Santal Parganas* (72 P/3; 24° 16' : 87° 15'), earthquake, 1897, fissures. R. D. O., M, XXIX, 327; Srimangal earthquake, 1918; M. S., M, XLVI, 28.
- Dummagudem, *Godavari* (65 C/13; 17° 51' : 80° 56'), Talchir boulder bed. W. K., M, XVIII, 238=Dumagudem.

- Dumo Tso, *Tibet* (77 L/9 ; 28° 55' : 90° 33'), lake. H. H. H., **M**, XXXVI, 132.
- Dumordo, *Ladakh* (43 M/14 ; 35° 42' : 75° 58'), glaciated cliffs. R. L., **R**, XIV, 45.
- Dumrahur, *Mirzapur* (64 I/13 ; 23° 55' : 82° 58' 30"), tremolite-rock. F. R. M., **R**, V, 22.
- Dumri, *Hazaribagh* (73 I/1 ; 23° 59' 30" : 86° 1'), molybdenum-ore. L. L. F., **R**, LIII, 293.
- Dumri Kalan, *Nagpur* (55 O/3 ; 21° 20' 30" : 79° 15'), manganese-ore. L. L. F., **M**, XXXVII, 898.
- Dumria, *Singhbhum* (73 F/16 ; 22° 11' 30" : 85° 47'), kaolin. L. A. N., **R**, LXV, 518.
- Dunbar estate, *Wynaad* (58 A/7 ; 11° 28' : 76° 21'), auriferous reef. H. H. H., **M**, XXXIII, pt. 2, 21.
- Dundee, *Punch* (43 G/14 ; 33° 32' : 73° 58'), Subathu beds, section. H. B. M., **M**, III, pt. 2, 89 (fig.)=Dandli.
- Dundua, *Hazaribagh* (73 E/6 ; 23° 40' : 85° 23'), coal seams. A. J., **M**, LII, 114.
- Dundul, *Ladakh* (43 N/15 ; 34° 25' : 75° 52' 30"), Panjal beds. R. L., **M**, XXII, 261=Dandal.
- Dunera, *Gurdaspur* (43 P/15 ; 32° 26' 30" : 75° 53' 30"), Siwalik beds. W. T., **R**, XIV, 92=Dunhara.
- Dungagali, *Hazara* (43 F/8 ; 34° 3' : 73° 24'), nummulitic limestone. A. B. W., **R**, VII, 73.
- Dungarvant, *Chota Udaipur* (46 F/15 ; 22° 26' : 73° 52' 30"), granite boundary. G. V. H., **R**, LIX, 350.
- Dunghan Mt., *Sibi* (39 C/1 ; 29° 52' : 68° 14'), nummulitic limestone. R. D. O., **R**, XXIII, 94 ; XXV, 21.
- Dungote hill, *Mianwali* (38 P/9 ; 32° 59' : 71° 38'), L. Siwalik sandstones. W. W., **R**, XVII, 121=Dangot hill.
- Dungri, *Idar* (46 E/2 ; 23° 44' 30" : 73° 1'), Idar granite. C. S. M., **M**, XLIV, 125.
- Dungri, *Rajpipla* (46 G/2 ; 21° 32' : 73° 7' 30"), iron-ore. P. N. B., **R**, XXXVII, 188.
- Dunhara, *Gurdaspur* (43 P/15 ; 32° 26' 30" : 75° 53' 30"), gneissose granite, petrology. C. A. M., **R**, XVII, 64=Dunera.
- Duni, *Jaipur* (45 O/9 ; 25° 52' 30" : 75° 36'), garnetiferous schists and pegmatite, Aravalli. A. M. H., **R**, LIV, 356.
- Dunseri R., *Sibsagar* (83 F/S. E. ; 26° 4' : 93° 48'), recent subsidence of valley. R. D. O., **M**, XIX, 238=Dhansiri R.
- Durala, *Karnal* (53 B/16 ; 30° 2' : 76° 48' 30"), meteorite. J. C. B., **M**, XLIII, 195.
- Durbadi, *Nagpur* (55 K/15 ; 21° 26' 30" : 78° 56'), Gondwana boundary fault. L. L. F., **M**, XXXVII, 845.
- Durdur (Daviran), *Persia* (24 B/6 ; 30° 32' : 56° 18'), Jurassic beds. G. E. P., **M**, XLVIII, pt. 2, 56 ; hematite, 66.
- Durdura, *Seonpur* (73 D/1 ; 20° 54' : 84° 13' 30"), graphite. L. L. F., **R**, LIII, 271.
- Durga hill, *Gulbarga* (56 G/3 ; 17° 22' 30" : 77° 11'), trap flows. R. B. F., **M**, XII, 188.
- Durgadevikonda, *Nellore* (57 N/6 ; 14° 36' : 79° 21'), Cuddapah quartzites. W. K., **M**, XVI, 155.
- Durga-ka-Nangal, *Patiala* (54 A/1 ; 27° 53' : 76° 2' 30"), manganiferous limestone. L. L. F., **M**, XXXVII, 1156=Darga-ka-Nangal.

- Durgam (Dhadgaon), *W. Khandesh* (46 K/1; 21° 49' 30" : 74° 13'), trap dykes. W. T. B., **M**, VI, 345.
- Durgamma Kolla, *Sandur* (57 A/12; 15° 0' 30" : 76° 36'), manganese-ore. L. L. F., **M**, XXXVII, 548, 1030 (Pl. xlv.).
- Durgapipal, *Naini Tal* (53 O/16; 29° 10' 30" : 79° 53'), Siwalik conglomerate. C. S. M., **M**, XXIV, 81.
- Durgapur, *Burdwan* (73 M/7; 23° 30' : 87° 19'), boring for coal. T. H. H., **R**, XXXIX, 49; supra-Panchet beds. E. H. P., **R**, LXIII, 123.
- Durgapur, *Panna* (63 D/6; 24° 42' : 80° 29'), diamond workings. E. V., **R**, XXXIII, 287.
- Durjing, *Bonai* (73 C/13; 21° 56' : 84° 53'), alluvial gold. T. H. H., **A. R.**, 1903, 13; J. M. M., **R**, XXXI, 88, 90; Cuddapah beds, 73=Darjing.
- Durjmu (Dirjmur) R., *Lakhimpur* (83 I/14; 27° 37' : 94° 51'), coal seam. R. R. S., **M**, XLI, 14=Deijnu R.
- Durli Chattarpur, *Seoni* (55 N/12; 22° 4' : 79° 34'), lateritic grit. R. C. B., **R**, XLVIII, 210.
- Durlipali, *Sambalpur* (64 O/13; 21° 47' : 83° 51'), coal seam, section. V. B., **R**, VIII, 106; W. K., **R**, XVII, 126, 129; G. F. R., **A. R.**, 1900, 66; **M**, XXXII, 91.
- Durrempoora, *Bijawar* (54 P/10; 24° 35' : 79° 34') Bijawar breccia. H. B. M., **M**, II, 42.
- Durti, *Surguja* (64 M/3; 23° 24' : 83° 2'), trap dyke. V. B., **R**, VI, 38.
- Dussai, *Nisarpur* (46 N/3; 22° 18' : 75° 11'), Cretaceous fossils. W. T. B., **M**, VI, 295.
- Duvvam, *Vizagapatam* (65 N/11; 18° 15' 30" : 83° 33'), manganese-ore. L. L. F., **M**, XXXVII, 1073.
- Duzdan R., *Persia* (25 E/6; 27° 40' : 57° 22'), Oman series. G. E. P., **M**, XLVIII, pt. 2, 8.
- Dwan, *Simla* (53 E/8; 31° 3' : 77° 20' 30"), Jaunsar conglomerate. G. E. P., **M**, LIII, 118.
- Dwarahat, *Almora* (53 O/5; 29° 47' : 79° 25'), old lake basin. R. D. O., **R**, XVI, 163.
- Dwarka, *Kathiawar* (41 B/16; 22° 14' : 68° 58'), U. Tertiary limestone. F. F., **M**, XXI, 125.
- Dwatoi, *Waziristan* (38 H/14; 32° 36' : 69° 54'), Janjal plant beds. M. S., **R**, LIV, 97.
- Dwatowi, *Khyber* (38 K/13; 33° 52' 30" : 70° 47'), Triassic beds. H. H. H., **M**, XXVIII, 105.
- Dyalpur (Dewalpur), *Sultanpur* (63 F/15; 26° 20' : 81° 59'), meteorite. J. C. B., **M**, XLIII, 196.
- Dyhunda, *Akola* (55 H/1; 20° 53' : 77° 8'), brine wells. A. B. W., **R**, II, 3=Dahihanda and Dhyunda.
- Dzakar Chu, *Tibet* (71 L/15; 28° 19' : 86° 51'), biotite-gneiss. A. M. H., **R**, LIV, 220.
- Dzamtrang, *Tibet* (77 H/10; 28° 38' : 89° 40'), granite. H. H. H., **M**, XXXVI, 127, 159.

- Dzara, *Tibet* (77 L/1; 28° 54' : 90° 14'), glacial tarn. H. H. H., **M**, XXXVI, 134.
- Dzongbuk, *Tibet* (77 D/11; 28° 16' : 88° 38'), Tertiary beds. H. H. H., **R**, XXXII, 165; Alveolina limestone. **M**, XXXVI, 176 (Pl. iii, fig. 3).
- Eashurmullay (Ishwaramalai), *Salem* (58 I/6; 11° 34' : 78° 24'), magnesite and steatite. W. K., **M**, IV, 324=Eswaramalai.
- Ebe, R., *Sambalpur* (64 O/13; 21° 49' : 83° 56'), Barakar beds. V. B., **R**, VIII, 105=Eeb and Ib R.
- Edamaranahalli, *Coimbatore* (57 H/8; 12° 5' 30" : 77° 25'), steatite. F. R. M., **R**, XXII, 63.
- Edlabad, *Yeotmal* (56 I/13; 19° 47' 30" : 78° 46'), Penganga shales. F. R. M., **M**, VII, 125.
- Edulabad, *E. Khandesh* (55 C/4; 21° 3' : 76° 3'), rock barrier (?). A. B. W., **R**, II, 3.
- Eeb R., *Sambalpur* (64 O/13; 21° 49' : 83° 56'), coal, analysis. G. S. L., **R**, XXIII, 206; coal seam G. F. R., A. R., 1900, 67; borings. **M**, XXXII, 101, 114; R. R. S., **M**, XLI, 86=Ebe and Ib R.
- Eera (Ira), *Garhwal* (53 N/4; 30° 5' 30" : 79° 2'), schist-gneissose granite contact. C. S. M., **R**, XX, 141.
- Eeteoj, *Hazaribagh* (73 E/1; 23° 55' : 85° 11'), chalcedony veins in Talchirs. A. J., **M**, LII, 14; Barakar stage, 29.
- Egani, *Tavoy* (95 J/3; 14° 21' 30" : 98° 7'), chalcopryrite. J. C. B., **M**, XLIV, 220; wolfram mine, 272.
- Eishmakam (Aish Magam), *Kashmir* (43 O/5; 33° 52' : 75° 17'). Permo-Carboniferous beds. R. L., **R**, XI, 43; XIV, 28 (Pl. i, fig. 2); **M**, XXII, 136; Syringothyris limestone. C. S. M., **R**, XXXVII, 310 (figs. & Pl. xxxiii, fig. 3); **XL**, 219.
- Ek-Bai, *D. G. Khan* (39 J/4; 30° 10' : 70° 6'), Cretaceous (?) sandstones. V. B., **R**, VII, 154.
- Ekh Khera, *Budaun* (53 L/15; 28° 16' : 78° 47'), meteorite. H. W-r., **R**, XLVII, 276 (Pls. xxxii-xxxiii).
- Eklahra, *Chhindwara* (55 J/12; 22° 12' 30" : 78° 42'), colliery. L. L. F., **R**, XLVI, 56; coal, analysis. G. V. H., **R**, LIX, 175.
- Eklara, *Idar* (46 A/14; 23° 45' : 72° 48'), kaolin. C. S. M., **M**, XLIV, 140, 146.
- Ekpai, *Rewah* (64 I/9; 23° 56' : 82° 41'), dolomite, analysis. F. R. M., **R**, VI, 42.
- Elanoothoomungalum (Elunuttimangalam), *Trichinopoly* (58 J/5; 10° 55' 30" : 78° 24'), crystalline limestone. W. K., **M**, IV, 275.
- Elao, *Surat* (46 C/15; 21° 27' : 72° 48'), millstones. A. B. W., **R**, I, 30.
- Elliohpur, *Amraoti* (55 G/11; 21° 16' : 77° 31'), fault. A. B. W., **R**, II, 4; E. H. P., **R**, LX, 94; Lameta beds, fossils. A. B. W., **R**, II, 4; W. T. B., **M**, VI, 160, 215; Cutch earthquake, 1819. R. D. O., **M**, XLVI, 115; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 256.
- Ellore, *Kistna* (65 H/2; 16° 43' : 81° 6'), Kamthi beds. W. T. B., **R**, IV, 51; V, 27; Artesian boring. E. V., **M**, XXXII, 80.
- Ellumbaloor (Yelambalur), *Trichinopoly* (58 I/15; 11° 16' : 78° 52' 30"), serpentine. W. K., **M**, IV, 323.



- Elphinstone Inlet, *Oman* (25 B/8; 26° 11': 56° 20'), Triassic fossils. W. T. B., R, V, 76; G. E. P., M, XXXIV, pt. 4, 99.
- Elphinstone L., *Mergui* (95 L/3; 12° 23': 98° 4'), volcanic rocks. E. H. P., R, LV, 33.
- Emagarh, *Chanda* (65 A/6; 19° 42': 80° 28'), iron-ore. H. H. H., R, XLI, 71.
- Emelia (Imalia), *Jubbulpore* (64 A/5; 23° 46' 30": 80° 23'), pisolitic iron-ore, F. R. M., R, XVI, 107.
- Encharani, *Karimnagar* (56 N/11; 18° 28': 79° 43'), Vindhyan quartzites. W. K. M, XVIII, 229.
- Encongoor (Inungur), *Trichinopoly* (58 J/5; 10° 51': 78° 29' 30"), felspar crystals. W. K., M, IV, 336.
- Endoingon, *Henzada* (85 O/1; 17° 51': 95° 2'), 'image' stone. W. T., M, X, 293.
- Enelai, *Chanda* (65 B/1; 18° 57': 80° 2'), Chikiala sandstones. W. K., M, XVIII, 293.
- Enemerla (Inimerla), *Nellore* (57 M/8; 15° 6' 30": 79° 27' 30"), hornblondic gneiss. R. B. F., M, XVI, 38.
- Engpho, *N. Shan States* (93 B/16; 22° 4': 96° 50'). Ordovician beds. T. D. L., M, XXXIX, pt. 2, 90, 239.
- Engsein, *Burma* (94 D/1; 16° 53': 96° 7'), boring for coal. R. R., R, XV, 138 = Insein.
- Enkawari, *Betul* (55 J/4; 22° 3': 78° 0' 30"), limestone. E. J. J., M, XXIV, 57.
- En-lo, *Yunnan* (101 H/4; 24° 0' 30": 101° 9'), Permo-Triassic beds. J. C. B., R, LIV, 320.
- Ennore, *Chingleput* (66 C/8; 13° 15': 80° 19' 30"), sand dunes. R. B. F., M, X, 13.
- Entry (Duncan) I., *Andamans* (86 D/16; 12° 1': 92° 47'), volcanic rocks. R. D. O., R, XVIII, 138.
- Eosu (Yus Maidan), *Kashmir* (43 K/9; 33° 50': 74° 40'), monoclinial fold in Karewas. C. S. M., R, XLI, 121 (Pl. xii, fig. 1); H. H. H., R, XLIV, 38.
- Erinpura, *Sirohi* (45 G/4; 25° 9': 73° 3'), granite. C. A. H., R, XIV, 300; T. D. L. A. R., 1898, 37; M, XXXV, 18, 73.
- Eriyur, *N. Arcot* (57 L/15; 12° 17': 78° 54'), augite-norite, petrology. T. H. H., R, XXX, 28.
- Erki, *Simla* (53 A/16; 31° 9': 76° 58'), Shali limestone. H. B. M., M, III, pt. 2, 54; Kakarhatti limestone. G. E. P., M, LIII, 45 = Arki.
- Erramahalli, *Salem* (57 L/3; 12° 16' 30": 78° 4'), corundum. C. S. M., R, XXX, 118.
- Erungaloor (Irungulur), *Trichinopoly* (58 J/13; 10° 56' 30": 78° 46'), granite. W. K., M, IV, 336.
- Esar (Assar), *Kohat* (38 K/16; 33° 8' 30": 71° 0'), folding in Nummulitic beds. A. B. W., M, XI, 266 (Pl. viii, fig. 41).
- Eswaramalai, *Salem* (58 I/6; 11° 24': 78° 24'), steatite. F. R. M., R, XXII, 63 = Eashurmullay.
- Etah, *United Provs.* (54 I/10; 27° 34': 78° 40'), Kangra earthquake, 1905. C. S. M., M, XXXVIII, 237.
- Etawah, *United Provs.* (54 N/1; 26° 45': 79° 1'), depth of water-table. H. B. M. R, XIV, 229; Kangra earthquake, 1905. C. S. M., M, XXXVIII, 243.

- Etiaipura (Itapora), *Burdwan* (73 I/13; 23° 47' : 86° 59'), faults. W. T. B., **M** III, 51.
- Etonda (Itaunda), *Mewar* (45 O/6; 25° 38' 30" : 75° 24'), Aravalli granite-gneiss. E. H. P., **R**, LX, 117.
- Etorā (Ataura), *Lucknow* (63 B/9; 26° 54' : 80° 46'), geodetic station. R. D. O., **M**, XLII, 213.
- Etoundah (Hitaura), *Nepal* (72 E/3; 27° 26' : 85° 2'), Nahan beds. H. B. M., **R**, VIII, 95; 'erratics', 100.
- Ettinahatti, *Sundur* (57 A/12; 15° 7' 30" : 76° 37'), hematite beds. R. B. F., **M**, XXV, 105.
- Eurl-kai, *Yunnan* (101 L/10; 24° 42' : 102° 32'), coal mine. J. C. B., **R**, XLIV, 100; **M**, XLVII, 73.
- Everest, Mt., *Nepal* (72 I/13; 27° 59' : 86° 56'), structure. A. M. H., **R**, LIV, 233 (Pl. vii).
- Fagu, *Simlu* (53 E/8; 31° 5' : 77° 18'), Chail limestone. G. E. P., **M**, LIII, 114.
- Fagwa (? Tagwa), *Rewah* (63 H/15; 24° 16' 30" : 81° 58'), copper-ore. R. D. O., **M**, XXXI, 173.
- Faizabad, *United Provs.* (63 J/1; 26° 47' : 82° 9'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 65, 71=Fyzabad.
- Fakir Dara, *Punch* (43 K/1; 33° 45' 30" : 74° 2'), folding in Murree beds. D. N. W., **M**, LI, 321.
- Falam, *Chin Hills* (84 F/9; 22° 56' : 93° 43'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 28.
- Faleri R., *Makran* (31 K/4; 25° 12' : 62° 0'), Makran series, mollusca. E. V., **M**, L, 223.
- False I., *Kyaukp'yu* (85 F/14; 18° 37' : 93° 57'), mud vent. E. H. P., **M**, XI, 197.
- False Point, *Cuttack* (73 L/15; 20° 23' : 86° 46'), tidal wave, earthquake, 1881. R. D. O., **R**, XVII, 48; monazite. E. H. P., **R**, LVIII, 30.
- Fang-ma-ch'ang, *Yunnan* (92 K/16; 25° 4' : 98° 58'), Permo-Carboniferous fossils. J. C. B., **R**, XLVII, 234.
- Fanuswadi, *Goa* (48 E/14; 15° 35' : 73° 59'), manganese-ore. L. L. F., **M**, XXXVII, 984, 985.
- Faragard, *Afghanistan* (38 B/13; 34° 57' : 68° 49'), Tertiary unconformity. H. H. H., **M**, XXXIX, 38, 49 (Pl. viii, fig. 1).
- Faranjā, *Afghanistan* (38 B/9; 35° 0' : 68° 43'), Ghorband limestone. H. H. H., **M**, XXXIX, 49, 50.
- Fariab, *Persia* (25 E/3; 27° 28' : 57° 7'), serpentine, Oman series. G. E. P., **M**, XLVIII, pt. 2, 65.
- Faridkot, *Punjab* (44 J/14; 30° 40' : 74° 46'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 207.
- Faridpur, *Bengal* (79 E/14; 23° 37' : 89° 50'), earthquake, 1897. P. N. B., **M**, XXIX, 317; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 268; Srimangal earthquake, 1918. M. S., **M**, XLVI, 28.
- Farriabadi R. (Rin Nai), *Kishtwar* (43 O/14; 33° 40' : 75° 49'), hot springs, sulphurous. R. L., **R**, XI, 51.
- Farsi I., *Persian Gulf* (11 I/1; 27° 58' : 50° 10'), submarine petroleum spring. G. E. P., **M**, XXXIV, pt. 4, 143, 149.

- Farsiya, *Persian Gulf* (11 J/12; 26° 5': 50° 38'), Eocene fossils. G. E. P., **M**, XXXIV, pt. 4, 119.
- Farur I., *Persian Gulf* (18 J/11; 26° 17': 54° 31'), Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 142.
- Fatehabad-Palpur, *Alwar* (54 A/9; 27° 56': 76° 42'), amphibolite intrusive in quartzite. A. M. H., **M**, XLV, 38 (Pl. viii, fig. 1).
- Fatehjang, *Attock* (43 C/10; 33° 34': 72° 39'), oilfield. E. H. P., **M**, XL, 373 (Pls. lxxi, lxxii).
- Fatehpur, *Dehra Dun* (53 F/11; 30° 26': 77° 44'), geodetic station. R. D. O., **M**, XLII, 239.
- Fatehpur, *Punch* (43 K/1; 33° 52' 30": 74° 7'), bituminous limestone. D. N. W., **M**, LI, 265.
- Fatehpur, *United Provs.* (63 C/13; 25° 55': 80° 50'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 246=Futtehpur.
- Fatehpur Sikri, *Agra* (54 E/12; 27° 5' 30": 77° 39'), Vindhyan sandstone. C. A. H., **R**, XIV, 287; A. M. H., **M**, XLV, 160 (note), 178=Futtiipur-Sikri.
- Fatepur, *Idar* (46 E/2; 23° 42': 73° 11'), magnesian rocks. C. S. M., **M**, XLIV, 107.
- Fathah, *Iraq* (35° 4': 43° 33'), oil seepages. E. H. P., **M**, XLVIII, 12 (Pl. ii).
- Fattehgarh, *Farrukhabad* (54 M/11; 27° 22': 79° 37'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 114.
- Fazak Kotal, *Afghanistan* (38 A/11; 35° 28': 68° 35'), Carboniferous limestone. C. L. G., **R**, XX, 19, 22.
- Fenchuganj, *Sylhet* (78 P/14; 24° 42': 91° 57'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 22.
- Fenshuiling (Fang-ya-Shan) pass, *Myitkyina* (92 K/9; 25° 50': 98° 45'), Devonian beds. M. S., **R**, LIV, 407.
- Feringesey Bat, *Goa* (48 E/14; 15° 34': 73° 58'), manganese-ore. L. L. F., **M**, XXXVII, 989.
- Ferokh, *Malabar* (49 M/16; 11° 10': 75° 50'), laterite. P. L., **M**, XXIV, 229.
- Ferozepur, *Punjab* (44 J/9; 30° 56': 74° 37'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 159.
- Ferozpur pass, *Kashmir* (43 K/5; 34° 0': 74° 23'), Gondwana beds. D. N. W., **M**, LI, 243.
- Finu range, *Persia* (25 A/1; 27° 50': 56° 8'), Eocene-Fars series. G. E. P., **M**, XLVIII, pt. 2, 109.
- Firaiman, *Persia* (23 M/14; 35° 43': 59° 53'), Orbitolina limestone. E. V., **R**, XXXVI, 314; Cretaceous fossils. H. H. H., **M**, XXXIX, 34; H. S. B., **R**, LVI, 264.
- Flat I. (Rokyun), *Kyaukpnyu* (85 F/14; 18° 37': 93° 47'), mud vents. E. H. P., **M**, XL, 195; raised beach, 209.
- Fojal (Phojal) R., *Kulu* (52 H/4; 32° 7': 77° 5'), Kangra earthquake, 1905, dust-cloud. C. S. M., **R**, XXXII, 286.
- Foljo, *Ladakh* (43 M/10; 35° 42': 75° 37'), glaciated spur. R. L., **R**, XIV, 47.
- Foosro (Phusro), *Hazaribagh* (73 I/1; 23° 46': 86° 0' 30"), coal seams, sections. T. W. H. H., **M**, VI, 54, 88.
- Fort Battye, *Afghanistan* (38 J/3; 34° 20': 70° 10'), Siwalik beds. H. H. H., **M**, XXXIX, 42.

- Fort Hertz, *Myitkyina* (92 E/7; 27° 21': 97° 24'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 33; river terrace. **R**, L, 245.
- Port Meadows, *Andamans* (86 D/16; 12° 1': 92° 46'), volcanic rocks. R. D. O., **R**, XVIII, 138.
- Fort Munro, *D. G. Khan* (39 G/13; 29° 56': 69° 59'), limestone breccia, L. Eocene, W. T. B., **M**, XX, 222; Orbitoides beds. E. V., **R**, XXXVI, 184; Cretaceous flysch, fossils, 241 (Pls. xxxi, xxxii); E. H. P., **R**, LXII, 19.
- Fort Sandeman, *Zhob* (39 E/7; 31° 20': 69° 26'), chromite. H. H. H., **R**, LI, 10.
- Fotu La, *Ladakh* (52 B/11; 34° 17': 76° 42'), Carboniferous shales (?). **R**, L., **R**, XIII, 44.
- Foul I. (Nanthakyun), *Kyaukpynu* (85 J/4; 18° 4': 94° 5'), mud vents. E. H. P., **M**, XL, 197; raised beach, 209.
- Fras Nag, *Kashmir* (43 K/10; 33° 38': 74° 36'), U. Triassic limestone. C. S. M., **R**, XLI, 123.
- Fraserpet, *Coorg* (48 P/15; 12° 27': 75° 58'), charnockite dykes. T. H. H., **M**, XXVIII, 190, 229 (Pl. xiii); magnesite. **R**, XXXIX, 127.
- French Rocks, *Mysore* (57 D/10; 12° 30': 76° 40' 30'), mica. T. H. H., **M**, XXXIV, 67.
- Freshwater lake (Tsokr Chunse), *Ladakh* (52 K/3; 33° 15': 78° 3'), soundings. D. G. O., **R**, XLII, 127.
- Fung-pien, *Yunnan* (101 D/3; 24° 25': 100° 7'), Kao-liang beds. J. C. B., **R**, LIV, 299.
- Fu-i-tsun, *Yunnan* (92 K/12; 25° 5': 98° 33'), contorted andesites. J. C. B., **R**, XLIII, 196.
- Fu-min Hsien, *Yunnan* (101 K/12; 25° 13': 102° 31'), Permo-Carboniferous beds. J. C. B., **R**, XLIV, 105.
- Futtehpur, *United Provs.* (63 C/13; 25° 55': 80° 50'), meteorite. J. C. B., **M**, XLIII, 202=Fatehpur.
- Futtipur-Sikri, *Agra* (54 E/12; 27° 5' 30": 77° 39'), Kaimur sandstone. F. R. M., **M**, VII, 59=Fatehpur Sikri.
- Fyzabad, *United Provs.* (63 J/1; 26° 47': 82° 9'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 246=Faizabad.
- Gabaroo, *Sibsagar* (83 J/6; 26° 44': 94° 28'), mineral water. H. B. M., **M**, IV, 414.
- Gabhir, *Attock* (43 C/8; 33° 7': 72° 26'), borings for oil. E. H. P., **R**, LVII, 261.
- Gachin hills, *Persia* (18 M/16; 27° 8': 55° 57'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 95.
- Gada, *Idar* (46 E/1; 23° 59' 30": 73° 1'), syenite-aplite. C. S. M., **M**, XLIV, 38.
- Gadabavalsa, *Vizagapatam* (65 N/11; 18° 22': 83° 34' 30"), manganese-ore, L. L. F., **M**, XXXVII, 462-3, 1048.
- Gadadar, *Idar* (46 E/6; 23° 37' 30": 73° 18'), mica-schist. C. S. M., **M**, XLIV, 64.
- Gadag, *Dharwar* (48 M/11; 15° 25': 75° 37' 30"), Dharwar schists. R. B. F., **R**, XXI, 49; J. M. M., **R**, XXXIV, 101.
- Gadani hill, *Las Bela* (35 K/12; 25° 7': 66° 43'), Cretaceous beds (?). W. T. B., **M**, XVII, 189; XX, 144.
- Gadari, *Jhelum* (43 G/12; 33° 13': 73° 36'), Siwalik anticline. L. L. F., **R**, LXV, 120.

- Gadarwara, *Chhindwara* (55 K/13; 21° 57' : 78° 55'), Deccan trap flow. L. L. F., R, XLVII, 93.
- Gadarwara, *Narsinghpur* (55 J/13; 22° 55' : 78° 47'), experimental boring. H. B. M., M, X, 184; R, VII, 4; VIII, 66; XI, 7; XIV, 215; E. J. J., M, XXIV, 10; R. R. S., M, XLI, 91=Garrawarra.
- Gadasam, *Vizagapatam* (65 N/7; 18° 20' 30" : 83° 25'), manganese-ore. L. L. F., M, XXXVII, 462-3, 1098.
- Gadasir B., *Kashmir* (43 N/3; 34° 30' : 75° 0'), Triassic dolomites and limestones. R. L., R, XII, 21; M, XXII, 155.
- Gaddikalmatti, *Shimoga* (48 O/13; 13° 57' : 75° 50'), manganese-ore. L. L. F., M, XXXVII, 1145.
- Gadiganur, *Bellary* (57 A/12; 15° 13' : 76° 36'), gneissose granite. R. B. F., M, XXV, 52.
- Gadigerevala, *Kurnool* (57 I/6; 15° 37' : 78° 26' 30"), hot springs. T. O., M, XIX, 148.
- Gadol, *Sirmur* (53 F/5; 30° 47' : 77° 20'), garnet zone, Chor Mt. G. E. P., M, LIII, 71.
- Gadowala, *Attock* (43 C/10; 33° 36' : 72° 39'), Eocene fossils. E. H. P., R, LX, 102.
- Gadra (Gadhada), *Idar* (45 D/16; 24° 4' : 72° 57'), calc-gneiss. C. S. M., M, XLIV, 13.
- Gaga, *Kathiawar* (41 F/4; 22° 8' 30" : 69° 12'), Gaj series, fauna. F. F., M, XXI, 121; E. V., M, L, 379.
- Gagalu, *Raichur* (56 H/3; 16° 28' : 77° 8'), pistacite-gneiss. R. B. F., M, XII, 257.
- Gagangair, Gagangir, Gaggangan, *Kashmir* (43 N/3; 34° 17' : 75° 12'), Carboniferous limestone. R. L., R, XI, 46; C. S. M., R, XLI, 140 (Pl. xii, fig. 3); gorge of Sind R. R. D. O., R, XXXI, 145.
- Gagar, *Karachi* (35 O/15; 25° 18' : 67° 53'), Gaj series, mollusca. E. V., M, L, 445, 447, 454, 455.
- Gagoni, *Jodhpur* (45 F/3; 26° 30' : 73° 13'), Erinpura granite. A. M. H., R, LXV, 471.
- Gagrana, *Jodhpur* (45 F/14; 26° 34' 30" : 73° 52'), pebble beds. A. M. H., R, LXV, 481.
- Gagret, *Hoshiarpur* (53 A/2; 31° 39' : 76° 3'), U. Siwalik, section. W. T., R, XIV, 86.
- Gagri, *Santal Parganas* (72 P/6; 24° 44' : 87° 28'), fire-clay. M. S., R, XXXVIII, 142.
- Gagrian, *Punch* (43 K/5; 33° 53' : 74° 17'), Kopra gneiss. D. N. W., M, LI, 223, 299; Palæozoic section, 306.
- Gahainda hill, *Simla* (53 E/4; 31° 10' : 77° 2' 30"), carbonaceous band, Jutogh series. G. E. P., M, LIII, 109.
- Gahiret, *Chitral* (38 M/14; 35° 40' : 71° 45' 30"), crystalline limestone. H. H. H., R, XLV, 281.
- Gahlin, *Kangra* (52 D/4; 32° 2' : 76° 12'), U. Siwalik beds, section. W. T., R, XIV, 89.
- Gai, *Jhelum* (43 H/1; 32° 58' : 73° 13' 30"), anticline in Kamial beds. D. N. W., M, LI, 281.

- Gaikanpali, *Gangpur* (73 B/3;  $22^{\circ} 23' 30''$ :  $84^{\circ} 3'$ ), epidosite. L. L. F., R, LXV, 74.
- Gaikhuri range, *Bhandara* (55 O/S. E.;  $21^{\circ} 15'$ :  $79^{\circ} 50'$ ), synclinorium, *Sakoli series*. L. L. F., R, LXV, 109.
- Gaildubha, *Chhindwara* (55 J/11;  $22^{\circ} 25'$ :  $78^{\circ} 45'$ ), passage of sill into flow. L. L. F., R, LXV, 97.
- Gaimukh, *Chhindwara* (55 K/14;  $21^{\circ} 44'$ :  $78^{\circ} 51' 30''$ ), rhodochrosite. L. L. F., M, XXXVII, 123, 291, 391; rhodonite, 141; spessartite, 171; manganese-ore, 781 (fig.); R, XXXIII, 211.
- Gainda Bet, *Outch* (40 H/12;  $24^{\circ} 2'$ :  $69^{\circ} 40'$ ), fault-scarp, earthquake, 1819. R. D. O., M, XLVI, 100.
- Gairu, Mt., *Suket* (53 A/15;  $31^{\circ} 23' 30''$ :  $76^{\circ} 56'$ ), Shali limestone. H. B. M., M, III, pt. 2, 50.
- Gaj R., *Sind* (35 N/1;  $26^{\circ} 51'$ :  $67^{\circ} 10'$ ), Miocene beds. W. T. B., R, IX, 16; XI, 170; M, XVII, 53; section, 89 (Pl. iv); Khirthar series, section. R, XI, 167; M, XVII, 41.
- Gajapatinagram, *Vizagapatam* (65 N/7;  $18^{\circ} 17'$ :  $83^{\circ} 21'$ ), manganese-ore. L. L. F., M, XXXVII, 1047.
- Gajendragarh, *Dharwar* (48 M/14;  $15^{\circ} 44'$ :  $75^{\circ} 58'$ ), syenitic gneiss. R. B. F., M, XII, 45, 257.
- Gajgaon, *Singhbhum* (73 F/1;  $22^{\circ} 45' 30''$ :  $85^{\circ} 10'$ ), amphibole-rock. J. A. D., M, LIV, 94.
- Gajpur, *Balaghat* (55 O/14;  $21^{\circ} 43'$ :  $79^{\circ} 53'$ ), manganese-ore. L. L. F., M, XXXVII, 713.
- Gajua Ting, *Naga Hills* (83 M/4;  $27^{\circ} 2'$ :  $95^{\circ} 13'$ ), coal seam. F. R. M., M, XII, 324; R. R. S., R, XXXIV, 214.
- Gajundoh, *Chhindwara* (55 J/12;  $22^{\circ} 9'$ :  $78^{\circ} 44'$ ), coalfield. E. J. J., M, XXIV, 34 (Pl. ii); R. R. S., M, XLI, 94.
- Gajwara, *Garhwal* (53 K/9;  $29^{\circ} 47'$ :  $78^{\circ} 40'$ ), Tal beds. C. S. M., R, XVIII, 75.
- Gakshi (Girkushi), *Yasin* (42 H/6;  $36^{\circ} 41' 30''$ :  $73^{\circ} 25'$ ), granite. H. H. H., R, XLV, 294.
- Gakum, *Persia* (17 P/16;  $28^{\circ} 11'$ :  $55^{\circ} 51'$ ), Hormuz series. G. E. P., M, XLVIII, pt. 2, 52; Oligocene beds, 80; nummulitic limestone, 110.
- Galatak, *Chitral* (38 M/14;  $35^{\circ} 31'$ :  $71^{\circ} 45' 30''$ ), Tertiary sandstone. H. H. H., R, XLV, 280.
- Galatoli, *Ranchi* (73 B/6;  $22^{\circ} 30'$ :  $84^{\circ} 16'$ ), bridge-site. E. H. P., R, LXII, 37.
- Galbanda, *Rangpur* (78 G/11;  $25^{\circ} 19'$ :  $89^{\circ} 32'$ ), earthquake, 1897, sand-vents. R. D. O., M, XXIX, 319.
- Galee, *Hazaribagh* (73 E/5;  $23^{\circ} 50' 30''$ :  $85^{\circ} 19'$ ), coal seams. A. J., M, LII, 84.
- Galgali, *Bijapur* (47 P/7;  $16^{\circ} 25'$ :  $75^{\circ} 26' 30''$ ), L. Kaladgi limestone. R. B. F., M, XII, 122.
- Gali Khetar, *Kashmir* (43 F/10;  $34^{\circ} 32' 30''$ :  $73^{\circ} 35'$ ), Infra-Triassic beds. D. N. W., R, LXV, 208.
- Gali Konda, *Kurnool* (57 M/3;  $15^{\circ} 20'$ :  $79^{\circ} 10' 30''$ ), Cuddapah quartzites. R. B. F., M, XVI, 47=Gauly Conda.
- Gali Pung, *Lakhimpur* (83 M/7;  $27^{\circ} 18' 30''$ :  $95^{\circ} 28' 30''$ ), salt-lick. E. H. P., M, XL, 294.
- Galichan, *Afghanistan* (30 O/10;  $29^{\circ} 43'$ :  $63^{\circ} 38'$ ), chrysolite. C. L. G., R, XVIII, 60.

- Galikonda, *Vizagapatam* (65 J/16; 18° 7' 30": 82° 56'), garnetiferous gneiss. W. K., R, XIX, 152.
- Galudih, *Kharsawan* (73 F/9; 22° 46' 30": 85° 44'), copper-ore. T. H. H., R, XXXIX, 237; J. A. D., M, LIV, 160.
- Gambat, *Khairpur* (40 A/11; 27° 21' 30": 68° 31'), meteorite. C. L. G., A. R., 1899, 2; J. C. B., M, XLIII, 202.
- Gambhirua, *Rewah* (64 E/16; 23° 7' 30": 81° 58'), pot-holes in Barakar sandstone. T. W. H. H., M, XXI, 193 (Pl. vii).
- Gamharia, *Ranchi* (73 F/9; 22° 58': 85° 32'), 'bad lands'. J. A. D., M, LIV, 5; metamorphosed tuffs, 67.
- Ganain, *Almora* (53 O/5; 29° 53': 79° 21' 30"), lake caused by landslide. R. D. O., R, XVI, 164.
- Ganaingya, *S. Shan States* (93 D/9; 20° 58': 96° 35'), copper-ore. C. S. M., A. R., 1900, 150.
- Ganchi, *Garro Hills* (78 K/7; 25° 21' 30": 90° 21'), Tertiary fossils. T. D. L., R, XX, 43.
- Gandahari hill, *Sibi* (39 G/12; 29° 5': 69° 43'), Nari beds. W. T. B., M, XX, 159, 211; sulphur, 212, 230.
- Gandak (Ghundak), *Quetta-Pishin* (34 N/3; 30° 21': 67° 8'), coal mine. R. R. S., M, XLI, 35.
- Gandamak, *Afghanistan* (38 J/3; 34° 17': 70° 1'), Siwalik beds. H. H. H., M, XXXIX, 39, 42; 'erratic' blocks (?), 40.
- Gandamardan hill, *Patna State* (64 L/13; 20° 53': 82° 52'), laterite. V. B., R, X, 169.
- Gandemara, *Kharsawan* (73 F/10; 22° 41' 30": 85° 44'), junction of Iron Ore series with granite. J. A. D., M, LIV, 34 (fig. & Pl. iii, fig. 2), 108.
- Gandharvagarh, *Belgaum* (48 I/1; 15° 57': 74° 14'), laterite. C. S. F., M, XLIX, 69.
- Gandhian, *Rawalpindi* (43 G/3; 33° 23': 73° 1'), U. Siwalik fossils. D. N. W., M, LI, 286, 344.
- Gandior, *Kohat* (38 K/11; 33° 25': 70° 39'), recent conglomerate. A. B. W., R, XII, 109.
- Gandoi, *Sibi* (39 H/1; 28° 49': 69° 2'), freshwater shells, Nari. W. T. B., M, XX, 203, 233 (Pls. i-iii); G. E. P., R, XXXVII, 142; *Vivipara bugtica*. B. P., R, LI, 364.
- Gandrori, *Simla* (53 E/4; 31° 1' 30": 77° 5'), Chail limestone. G. E. P., M, LIII, 92.
- Ganduani, *Surguja* (64 M/6; 23° 36': 83° 15'), hot spring. V. B., M, XV, 23; T. O., M, XIX, 137.
- Gandwani, *Hazaribagh* (73 E/6; 23° 45': 85° 23'), hot spring. T. O., M, XIX, 138.
- Ganeri, *Yeotmal* (56 I/5; 19° 51' 30": 78° 23'), hot spring. T. O., M, XIX, 144.
- Ganesar, *Jaipur* (45 M/14; 27° 40': 75° 49' 30"), hot spring. T. O., M, XIX, 132.
- Ganeshpur, *Panna* (63 D/5; 24° 56' 30": 80° 19' 30"), diamond workings. E. V., R, XXXIII, 299 (fig.).
- Ganespur, *Palamau* (73 A/13; 23° 48': 84° 54'), coal seam. T. W. H. H., M, VII, 309.
- Ganespura, *Ajmer* (45 J/12; 26° 1': 74° 40'), lead-ore. C. A. H., R, XIII, 248.

- Ganga Choti, *Kashmir* (43 F/16; 34° 4' : 73° 47'), glaciated surfaces. D. N. W., M, LI, 288.
- Gangai, *Jubbulpore* (55 M/16; 23° 5' : 79° 48'), manganese-ore (?). P. N. B., R, XXI, 72, 87.
- Gangao, *Panna* (54 P/14; 24° 37' : 79° 52'), dam-site. T. H. H., R, XXXVIII, 39.
- Gangapur, *Jaipur* (54 B/11; 26° 28' : 76° 43' 30"), Gwalior slates. A. M. H., M, XLV, 140; fault. 173.
- Gangapur, *Mandasor* (45 K/8; 25° 13' : 74° 16'), mica-pegmatites. L. L. F., R, LXV, 140.
- Gangar, *Mewar* (45 K/12; 25° 3' : 74° 36'), iron-ore. C. A. H., R, XIII, 248. =Gunrar.
- Gangaw, *Ramri I.* (85 E/16; 19° 8' : 93° 45' 30"), oil seepage. E. H. P., M, XL, 193.
- Gangeewara, *Chhindwara* (55 J/16; 22° 5' 30" : 78° 51'), Lameta grits. E. H. P., R, LVIII, 57.
- Gang-gi-ri, *Tibet* (77 O/2; 29° 35' : 91° 1'), Cretaceous limestone. H. H. H., M, XXXVI, 169.
- Gangi, *Rewah* (63 L/6; 24° 31' : 82° 30'), Kheinjua limestone. P. N. D., M, XXXI, 151.
- Ganglewara, *Bhandara* (55 O/16; 21° 6' : 79° 46'), kyanite-rocks. S. K. C., R, LXV, 292.
- Gangokocha, *Manbhum* (73 F/13; 22° 54' 30" : 85° 58' 30"), carbonaceous phyllites. J. A. D., M, LIV, 46.
- Gangra, *Mewar* (45 K/12; 25° 3' : 74° 36' 30"), hot spring. T. O., M, XIX, 133. =Gunrar.
- Gangrez Madgul, *Vizagapatam* (65 J/12; 18° 1' 30" : 82° 33'), khondalite. T. L. W., R, XXXVI, 3.
- Gangri (Jangri), *Karachi* (35 O/15; 25° 23' : 67° 59'), Gaj series, mollusca. E. V., M, L, 365, 371, 426, etc.
- Gangta I., *Cutch* (41 I/6; 23° 44' : 70° 29'), Jurassic beds, section. A. B. W., M, IX, 109 (fig.).
- Gangur, *Shimoga* (48 O/13; 13° 51' : 75° 50'), manganese-ore. L. L. F., M, XXXVII, 1148.
- Ganibail, *Belgaum* (48 I/10; 15° 41' : 74° 31'), granite-gneiss. R. B. F., M, XII, 257.
- Ganjalli, *Kohat* (38 O/15; 33° 25' : 71° 46'), gypsum, recent formation. M. S., R, L, 66 (Pl. x, fig. 1)=Gunjully.
- Ganjar, *Rewah* (64 E/13; 23° 54' 30" : 81° 54'), Raniganj plants. O. F., R, XIII, 184; T. W. H. H., R, XIV, 130.
- Ganjar R., *Bilaspur* (64 J/7; 22° 21' : 82° 17'), coal seam. R. R. S., M, XLI, 85.
- Ganjra R., *Rewah* (64 E/3; 23° 21' : 81° 3'), coal seam. T. W. H. H., M, XXI, 173; R, XIV, 127; R. R. S., M, XLI, 77.
- Ganor, *Jaipur* (45 N/7; 26° 22' : 75° 20'), banded gneiss, Aravalli system. A. M. H., R, LIV, 353.
- Ganpur, *Birbhum* (72 P/12; 24° 4' : 87° 40' 30"), iron-ore. V. B., M, XIII, 242.
- Ganta Par, *Punch* (43 K/6; 33° 39' : 74° 29'), Gondwana synclinorium. D. N. W., M, LI, 315.



- Gantlapalem (Agnigundala), *Guntur* (56 P/12; 16° 11' : 79° 44' 30"), old copper mine. R. B. F., **M**, VIII, 269.
- Gantok, *Sikkim* (78 A/11; 27° 20' : 88° 37'), inversion of Daling series. P. N. B., **R**, XXIV, 221.
- Ganypittah (Garimenapenta), *Nellore* (57 N/9; 14° 59' 30" : 79° 33'), copper-ore. F. R. M., **R**, XII, 168=Gunnypenta.
- Gao Kuh-i-Shak, *Persia* (10 O/14; 29° 38' 30" : 51° 48' 30"), gypsum beds, Fars series. G. E. P., **M**, pt. 4, 71.
- Gaola-ka-Sera, *Kolhapur* (47 L/4; 16° 1' : 74° 6'), bauxite. H. C. J., **R**, LIV, 422; C. S. F., **M**, XLIX, 79.
- Gaonri, *Jaipur* (45 M/14; 27° 42' : 75° 50'), copper-ore. A. M. H., **R**, LIV, 385.
- Gaoparan, *Afghanistan* (38 B/9; 34° 56' : 68° 44'), Tertiary beds. H. H. H., **M**, XXXIX, 49.
- Gaora, *Bashahr* (53 E/11; 31° 28' 30" : 77° 43'), garnet and staurolite. F. R. M., **M**, V, 169, 171; metamorphic rocks. C. A. M., **R**, X, 218; XIX, 69.
- Gaori, *Adilabad* (56 M/5; 19° 48' : 79° 17' 30"), coal basin. T. W. H. H., **M**, XIII, 55; R. R. S., **M**, XLI, 90.
- Gar, *Jaipur* (45 O/9; 25° 52' : 75° 41'), Aravalli quartzites. A. M. H., **R**, LIV, 356.
- Gar, *Tehri* (53 J/11; 30° 16' 30" : 78° 43'), erosion of vertical beds. C. S. M., **R**, XX, 32.
- Gara, *Rawalpindi* (43 G/11; 33° 21' : 73° 34' 30"), Chinji beds. D. N. W., **M**, LI, 283.
- Garadia, *Banswara* (46 I/3; 23° 20' : 74° 14'), manganese-ore. L. L. F., **M**, XXXVII, 1158.
- Garaghat, *Balaghat* (55 O/14; 21° 40' : 79° 46'), manganese-ore. L. L. F., **M**, XXXVII, 704, 706.
- Garala, *Punch* (43 G/9; 33° 47' 30" : 73° 44' 30"), plants, Palandri stage. D. N. W., **M**, LI, 274.
- Garangi hill, *Manbhum* (73 I/10; 23° 34' : 86° 43' 30"), U. Panchet beds. W. T. B., **M**, III, 130.
- Garanji, *Hazaribagh* (72 L/2; 24° 33' 30" : 86° 8'), mica-pegmatite. T. H. H., **M**, XXXIV, 37.
- Gararwansi, *Jaipur* (54 B/2; 26° 35' : 76° 2'), Aravalli rocks (?). A. M. H., **R**, LIV, 360.
- Garbandh, *Palamau* (63 P/7; 24° 21' : 83° 28' 30"), L. Vindhyan outlier. E. V., **M**, XXXI, 105.
- Garbham, *Vizagapatam* (65 N/7; 18° 22' : 83° 27'), manganmagnetite. L. L. F., **M**, XXXVII, 39, 249; psilomelane, 99 (Pl. v); wad, 119, 121; manganese-garnet, 163, 166, 179, 265-72; manganese-ore, 1081 (figs. & Pls. li-liv).
- Garbyang, *Almora* (62 B/16; 30° 7' 30" : 80° 52'), Vaikrita-Haimanta boundary. C. L. G., **M**, XXIII, 162.
- Gardan Diwal, *Afghanistan* (38 B/2; 34° 30' : 68° 14'), marble. H. H. H., **M**, XXXIX, 25, 72.
- Gargotti, *Kolhapur* (47 L/3; 16° 19' : 74° 8'), bauxite. H. C. J., **R**, LIV, 425; building stone, 426.
- Garh (Garh Moran), *Jaipur* (54 B/10; 26° 42' : 76° 32' 30"), copper-ore. C. A. H., **R**, X, 91; XIII, 247=Mora and Moran.

- Garhi Habibulla, *Hazara* (43 F/7; 34° 24' : 73° 23'), fan talus. W. T., **R**, XIII, 234; glass-making sand. E. H. P., **R**, LXII, 66=Gurhee Hubeeboolah.
- Gari, *Hyderabad, Sind* (40 D/15; 24° 19' : 68° 55'), flooded area, Cutch earthquake, 1819. R. D. O., **M**, XLVI, 94.
- Gariajhor, *Gangpur* (73 B/4; 22° 3' : 84° 9'), manganese-ore. L. L. F., **R**, XLI, 15 (fig.); braunite crystal, 44 (fig.)=Ghoriajor.
- Garinda, *Jaipur* (45 M/1; 27° 56' : 75° 1'), geodetic station. R. D. O., **M**, XLII, 231.
- Garividi, *Vizagapatam* (65 N/11; 18° 17' : 83° 32'), vredenburgite. L. L. F., **M**, XXXVII, 42, 527; braunite, 67; manganese-ore, 1055; vredenburgite. **R**, XXXVII, 200.
- Garjan hill, *Gangpur* (64 N/12; 22° 2' : 83° 39'), Hingir stage, plants. V. B., **R**, VIII, 115.
- Garkar Bhunga, *Bhandara* (55 O/11; 21° 30' : 79° 38' 30'), manganese-ore. L. L. F., **M**, XXXVII, 763.
- Garm Thun, *Hazara* (43 C/13; 33° 46' : 72° 56'), Jurassic beds. A. B. W., **R**, XII, 125.
- Garmab, *D. G. Khan* (39 J/6; 30° 40' : 70° 25' 30'), *Nummulites*. W. L. F. N., **R**, LIX, 129; *Discocyclina*, 148-151.
- Garmab (Mat Kund), *D. G. Khan* (39 G/14; 29° 32' : 69° 59'), saline spring. T. O., **M**, XIX, 114.
- Garm-ab, *Larkhana* (35 N/12; 26° 13' : 67° 42'), hot spring. T. O., **M**, XIX, 111.
- Garm-ab, *Persia* (23 M/2; 35° 42' : 59° 14'), hot spring on fault. C. L. G., **R**, XIX, 56, 59.
- Garoodamungalum, *Trichinopoly* (58 I/16; 11° 5' : 78° 55'), Utatur beds. H. F. B., **M**, IV, 84; marble, 116, 217.
- Garpendhri, *Bhandara* (55 O/16; 21° 1' : 79° 52'), kyanite-sillimanite rock. S. K. C., **R**, LXV, 296.
- Garraraju Chipurupalli, *Vizagapatam* (65 N/11; 18° 24' : 83° 37'), manganese-ore. L. L. F., **M**, XXXVII, 462-3, 1101.
- Garrowarra, *Narsinghpur* (55 J/13; 22° 55' : 78° 47'), alluvial clay. W. T., **M**, II, 281=Gadawara.
- Garwani, *Rewah* (63 L/8; 24° 0' : 82° 18'), coal, analysis. G. S. L., **R**, XXX, 256.
- Gasherbrum glacier, *Ladakh* (52 A/9; 35° 52' : 76° 40'), movements of snout. K. M., **R**, LXIII, 263 (Pl. vii, 25).
- Gatogara R., *Sirmur* (53 F/5; 30° 53' : 77° 17'), 'window' in Chail series. G. E. P., **M**, LIII, 18 (fig.).
- Gatoli, *Sirmur* (53 F/5; 30° 50' : 77° 16' 30'), fault in Blaini series. G. E. P., **M**, LIII, 27.
- Gatta, *Indore* (55 B/3; 22° 18' : 76° 3'), Cretaceous oyster bed. H. B. M., **R**, VIII, 73=Ghatia.
- Gatt-i-Hamun, *Chagai* (34 D/1; 28° 57' : 64° 0'), Cretaceous beds. E. V., **M**, XXXI, 239 (Pl. viii, fig. 8).
- Gaud Ahmar, *Persia* (17 N/16; 30° 4' : 55° 56' 30'), volcanic rocks, U. Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 68, 69.
- Gauhati, *Kamrup* (78 N/12; 26° 11' : 91° 45'), earthquakes: Cachar, 1869. T. O., **M**, XIX, 29; Assam, 1897. R. D. O., **M**, XXIX, 263, 317 (fig. & Pl. xx); sand-vents, 100; rise of river, 107; rotation of objects, 209 (Pls. xxi, xxxvi & xxxvii); angle of emergence, 133; Srimangal, 1918. M. S., **M**, XLVI, 28.

- Gaukharchang pass, *Persia* (29 A/15; 35° 28' : 60° 57'), Jurassic plant beds, section. C. L. G., **R**, XIX, 58.
- Gauli, *Belgaum* (48 I/6; 15° 35' : 74° 20'), laterite. R. B. F., **M**, XII, 211, 216, (fig.).
- Gauly Conda, *Kurnool* (57 M/3; 15° 20' : 79° 10' 30'), Nallamalai series, section. W. K., **M**, VIII, 219 (fig.)=Gali Konda.
- Gauran, *Kashmir* (43 O/6; 33° 42' 30" : 75° 25' 30"), Ordovician limestone (?). C. S. M., **R**, XL, 212.
- Gaurangdi, *Burdwan* (73 I/13; 23° 49' : 86° 59'), coal seam. R. R. S., **M**, XLI, 44.
- Gauri (Gohri) Ghat, *Garhwal* (53 J/8; 30° 1' : 78° 15'), Himalayan boundary fault. W. T., **R**, XIV, 94.
- Gaurikund, *Garhwal* (53 N/2; 30° 39' : 79° 2'), hot spring. T. O., **M**, XIX, 123.
- Gauripur, *Bhagalpur* (72 L/13; 24° 47' 30" : 86° 55'), lead-ore. L. L. F., **R**, LIII, 282.
- Gauripur, *Goalpara* (78 F/16; 26° 5' : 89° 58'), earthquake, 1897. R. D. O., **M**, XXIX, 19, 261.
- Gautang, *Tibet* (78 E/2; 27° 36' : 89° 5'), limestone. H. H. H., **M**, XXXVI, 140.
- Gaverband, *Persia* (25 A/15; 27° 19' : 56° 59'), thrust fault. G. E. P., **M**, XLVIII, pt. 2, 10.
- Gawan, *Hazaribagh* (72 H/14; 24° 37' : 85° 56'), dome-gneiss. F. R. M., **R**, VII, 33; mica-pegmatite, 41; T. H. H., **M**, XXXIV, 36 (figs.); leucopyrite, 51.
- Gawdu, *Ramri I.* (85 E/7; 19° 20' : 93° 29' 30"), folds in Eocene beds. E. H. P., **M**, XL, 182.
- Gawilgarh, *Amraoti* (55 G/7; 21° 22' : 77° 20'), Deccan trap and Mahadeva beds. A. B. W., **R**, II, 4.
- Gaya, *Bihar* (72 H/1; 24° 47' : 85° 1'), potstone, petrology. C. A. M., **R**, XX, 43; earthquake, 1897, time record. R. D. O., **M**, XXIX, 64; sounds, 193=Gya.
- Gazechah, *Chagai* (34 C/14; 29° 32' : 64° 48'), volcanic agglomerate. T. H. H., **R**, XXX, 128.
- Gazulapali, *Kurnool* (57 I/11; 15° 24' : 78° 37'), hot spring. T. O., **M**, XIX, 148.
- Gedu R., *Singpho Hills* (92 B/5; 26° 56' : 96° 20'), Disang series. M. S., **R**, LIV, 402; jadeite, 408.
- Geh, *Persia* (31 B/4; 26° 13' : 60° 13'), overfolding in Eocene beds. G. H. T., **R**, LIII, 64.
- Gehra Nala, *Chhindwara* (55 K/14; 21° 45' : 78° 52'), manganese-ore. L. L. F., **M**, XXXVII, 781.
- Gej R., *Korea* (64 I/11; 23° 17' : 82° 33' 30"), Talchirs. L. L. F., **M**, XLI, 169; coal seams, 217.
- Geku, *Abor Hills* (82 P/3; 28° 26' : 95° 7'), volcanic series. J. C. B., **R**, XLII, 244; slates, 249; clay-ironstone, 253.
- Gelacapad, *Nellore* (57 N/12; 14° 14' : 79° 36' 30"), Cuddapah quartzites. W. K., **M**, XVI, 152; trap flows and dykes, 168=Gilakapad.
- Gelwat, *Chota Udaipur* (46 F/15; 22° 18' 30" : 73° 59'), dolerite dyke. G. V. H., **R**, LIX, 351.
- Gendoli, *Bundi* (45 O/14; 25° 32' 30" : 75° 59'), Ganurgarh shales. A. L. C., **R**, LX, 173.
- Gengemri, *Saraiskela* (73 J/2; 22° 42' 30" : 86° 5' 30"), kaolin. E. H. P., **R**, LVI, 30.

- Gerenja, *Palamau* (73 A/13;  $23^{\circ} 47' 30''$ :  $84^{\circ} 48' 30''$ ), Barakar-Raniganj stages, sections. A. J., **M**, LII, 48.
- Geringapatna, *Puri* (73 H/11;  $20^{\circ} 17'$ :  $85^{\circ} 42' 30''$ ), well-section. W. T. B., **M**, I, 288.
- Gerrah range, *Persia* (10 I/5;  $31^{\circ} 53'$ :  $50^{\circ} 25'$ ), Cretaceous-Bakhtiyari series G. E. P., **M**, XXXIV, pt. 4, 82 (Pl. iv).
- Geruani, *Sirmur* (53 F/10;  $30^{\circ} 43'$ :  $77^{\circ} 31' 30''$ ), lead mines. H. B. M., **M**, III, pt. 2, 179.
- Gesupur, *Bulandshahr* (53 H/10;  $28^{\circ} 33'$ :  $77^{\circ} 42'$ ), geodetic station. R. D. O., **M**, XLII, 244.
- Gez, *Kashgar* (42 N/5;  $38^{\circ} 51'$ :  $75^{\circ} 23'$ ), oyster beds, Ferghana series. H. H. H., **R**, XLV, 320.
- Ghagar R., *Mirzapur* (63 P/2;  $24^{\circ} 32'$ :  $83^{\circ} 3'$ ), erosion. R. D. O., **M**, XXXI, 48; L. Vindhyan beds, 165.
- Ghagatyan, (Ghagtian), *Mandi* (53 A/13;  $31^{\circ} 56'$ :  $76^{\circ} 55' 30''$ ), hydro-electric project. E. H. P., **R**, LVI, 28.
- Ghagi, *Saraikele* (73 F/14;  $22^{\circ} 44'$ :  $86^{\circ} 0'$ ), kaolin. E. H. P., **R**, LVI, 30.
- Ghagidih, *Singbhum* (73 J/1;  $22^{\circ} 45' 30''$ :  $86^{\circ} 11' 30''$ ), kyanite. J. A. D., **M**, LII, 231.
- Ghagra, *Saraikele* (73 F/10;  $22^{\circ} 41'$ :  $85^{\circ} 31'$ ), inclusions in epidiorite. J. A. D., **M**, LIV, 85; potstone, 90.
- Ghalja, *Sirmur* (53 F/6;  $30^{\circ} 37' 30''$ :  $77^{\circ} 29' 30''$ ), natural gob-fire. H. H. H., **R**, LI, 12.
- Ghanta, *Idar* (46 E/6;  $23^{\circ} 36'$ :  $73^{\circ} 23'$ ), steatite. C. S. M., **R**, XLII, 53; **M**, XLIV, 103, 148.
- Ghantol, *Baroda* (46 F/12;  $22^{\circ} 5'$ :  $73^{\circ} 41'$ ), volcanic ash beds. W. T. B., **M**, VI, 328.
- Ghantoli, *Rajpipla* (46 G/10;  $21^{\circ} 40'$ :  $73^{\circ} 32'$ ), chalcedony veins in trap. P. N. B., **R**, XXXVII, 173.
- Ghar Dhar, *Sirmur* (53 F/5;  $30^{\circ} 59'$ :  $77^{\circ} 23' 30''$ ), Blaini limestone. E. H. P., **R**, LXII, 165.
- Gharh hill, *Makran* (31 K/3;  $25^{\circ} 23'$ :  $62^{\circ} 9'$ ), Makran series, mollusca. E. V., **M**, L, 33, 35, 47, etc.
- Gharibo hill, *Chagai* (30 K/15;  $29^{\circ} 20'$ :  $62^{\circ} 58'$ ), andesite. T. H. H., **R**, XXX, 128.
- Gharibpet, *Warangal* (65 C/11;  $17^{\circ} 29'$ :  $80^{\circ} 37'$ ), garnet and kyanite. W. T. B., **R**, V, 25; J. A. D. **M**, LII, 164.
- Gharog, *Simla* (53 E/4;  $31^{\circ} 9' 30''$ :  $77^{\circ} 5'$ ), phyllites, Chail series. G. E. P., **M**, LIII, 94.
- Ghat, *Alwar* (54 A/15;  $27^{\circ} 28'$ :  $76^{\circ} 48'$ ), Berla quartzite. A. M. H., **M**, XLV, 82, 126.
- Ghatal, *Midnapore* (73 N/10;  $22^{\circ} 40'$ :  $87^{\circ} 44'$ ), Calcutta earthquake, 1906 C. S. M., **R**, XXXVI, 220.
- Ghatasher, *Patiala* (54 A/1;  $27^{\circ} 58'$ :  $76^{\circ} 2'$ ), mica. P. N. B., **R**, XXXIII, 58; rutile and garnet, 59.
- Ghatia (Ghalin), *Banswara* (46 I/7;  $23^{\circ} 19'$ :  $74^{\circ} 17'$ ), pyrolusite. L. L. F., **M**, XXXVII, 82, 1157.

- Ghatia, *Indore* (55 B/3 ; 22° 18' : 76° 3'), Gondwana beds. P. N. B., **M**, XXI, 20 ; Cretaceous oyster bed, 21, 33=Gatta.
- Ghatkuri, *Singhbhum* (73 F/7 ; 22° 18' : 85° 24'), iron-ore. H. H. H., **R**, LI, 13.
- Ghatotand, *Hazaribagh* (73 E/9 ; 23° 47' : 85° 33' 30'), coal seam. T. W. H. H., **M**, VI, 91.
- Ghatsila, *Singhbhum* (73 J/6 ; 22° 35' : 86° 29'), iron-ore. H. H. H., **R**, LII, 112.
- Ghaus, *Basti* (63 M/3 ; 27° 21' : 83° 6'), geodetic station. R. D. O., **M**, XLII, 213.
- Ghazegah, *Afghanistan* (29 J/3 ; 34° 22' 30" : 62° 13'), gneiss and granite. C. L. G., **R**, XIX, 64.
- Ghaziabad, *Meerut* (53 H/6 ; 28° 40' : 77° 26'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 66, 71.
- Ghaziaband pass, *Quetta-Pishin* (34 J/15 ; 30° 19' : 66° 47'), Eocene beds. C. L. G., **M**, XVIII, 19 (fig.), 30.
- Ghazij R., *Sibi* (39 C/1 ; 29° 54' : 68° 9'), Eocene shales. R. D. O., **R**, XXIII, 95.
- Ghazikot, *Buner* (43 B/14 ; 34° 30' : 72° 50'), mica-schist, petrology. C. S. M., **M**, XXVI, 60 ; gneissose granite, 73 ; epidiorite, 77 (Pl. ii, figs. 5, 6).
- Ghazipur, *United Provs.* (63 O/10 ; 25° 35' : 83° 35'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 249.
- Ghaziram Sot, *Garhwal* (53 K/5 ; 29° 54' : 78° 20'), Tertiary beds. R. D. O., **R**, XVII, 163.
- Ghech, *Patiala* (53 E/4 ; 31° 7' 30" : 77° 2'), Chail overthrust, section. G. E. P., **M**, LIII, 97.
- Ghertee, *Almora* (62 B/2 ; 30° 40' : 80° 4'), lead mines. A. W. L., **R**, II, 88 = Girthi.
- Ghiddour, *Monghyr* (72 L/1 ; 24° 51' : 86° 12'), quartzites and schists. H. B. M., **R**, II, 43.
- Ghilod, *Alwar* (53 D/8 ; 28° 2' 30" : 76° 24'), hematite vein. A. M. H., **M**, XLV, 87.
- Ghod-dungri, *Narukot* (46 F/11 ; 22° 23' : 73° 44'), manganese-ore. L. L. F., **M**, XXXVII, 646.
- Ghog, *Mandi* (52 D/16 ; 32° 2' : 76° 51'), dam-site. E. H. P., **R**, LVI, 27 ; L. L. F., **R**, LXV, 47.
- Ghogara, *Nagpur* (55 O/3 ; 21° 23' : 79° 11'), hollandite. L. L. F., **M**, XXXVII, 90 ; piedmontite, 189, 301 (Pl. x, figs. 3, 4) ; manganese-micas, 196, 198, 304 ; recent deposition of psilomelane, 395 ; manganese-ore, 961 (figs.).
- Ghogra, *Jubbulpore* (64 A/3 ; 23° 29' : 80° 12'), manganiferous iron-ore. L. L. F., **M**, XXXVII, 595, 825=Gogra.
- Ghogri, *Betul* (55 J/4 ; 22° 11' : 78° 7'), Motur beds. E. H. P., **R**, LIX, 90.
- Ghogri, *Chhindwara* (55 J/12 ; 22° 10' : 78° 42'), colliery, analysis of coal. G. V. H., **R**, LIX, 179.
- Ghombaria, *Mayurbhanj* (73 F/16 ; 22° 5' : 85° 48' 30'), granite tors. L. A. N., **R**, LXV, 516.
- Ghondi, *Balaghat* (64 C/5 ; 21° 55' 30" : 80° 26'), manganese-ore. L. L. F., **M**, XXXVII, 727.
- Ghondi Nala, *Chhindwara* (55 K/14 ; 21° 43' : 78° 54'), manganiferous limestone. L. L. F., **M**, XXXVII, 790.
- Ghonta, *Chota Udaipur* (46 F/15 ; 22° 29' : 73° 53'), gneissose granite. G. V. H., **R**, LIX, 344.

- Ghoragali, *Jhelum* (43 H/1; 32° 54' : 73° 9'), brine spring. A. B. W., **M**, XIV, 48; nummulitic limestone, 122 (Pl. xi, fig. 9)=Goragali.
- Ghoratankri, *Danta* (45 D/15; 24° 22' : 72° 51'), marble. E. H. P., **R**, LXI, 27.
- Ghorawari, *Chhindwara* (55 J/8; 22° 11' 30" : 78° 30'), colliery, analysis of coal. G. V. H., **R**, LIX, 182.
- Ghorband (district) *Afghanistan* (38 A/S. E., 35° 0' : 69° 0'), Kalu series. H. H. H., **M**, XXXIX, 23, 47; limestone, 27, 49; Tertiary beds, 38.
- Ghorbei, *Rewah* (64 E/11; 23° 20' : 81° 33'), coal seam. T. W. H. H., **M**, XXI, 187, 239.
- Ghordewa, *Bilaspur* (64 J/11; 22° 23' : 82° 38'), coal seam, analyses. W. K., **R**, XX, 199; R. R. S., **M**, XLI, 85.
- Ghoriajor, *Gangpur* (73 B/4; 22° 3' : 84° 9'), gondite. E. H. P.; **R**, LXIII, 83 =Gariajhor.
- Ghoriāla, *Jodhpur* (45 B/11; 26° 26' 30" : 72° 36'), outliers of Vindhyan sandstone. T. D. L., **M**, XXXV, 45 (Pl. ii, fig. 2).
- Ghorvada, *Idar* (46 E/2; 23° 39' 30" : 73° 2'), Ahmednagar sandstone. C. S. M., **M**, XLIV, 138, 140.
- Ghotam (Ghutam), *Palamau* (73 A/9; 23° 51' 30" : 84° 40'), iron-ore. V. B., **M**, XV, 81.
- Ghoteea, *Khavargush* (64 C/15; 21° 18' : 80° 48'), basaltic rocks, Chulpi Ghat series. P. N. B., **R**, XXI, 59.
- Ghoti, *Chhindwara* (55 K/14; 21° 38' : 78° 53'), rhodonite. L. L. F., **M**, XXXVII, 141; barites, 221; spessartite pegmatite, 297, 336; manganese-ore, 792.
- Ghugra, *Hazaribagh* (73 E/1; 23° 55' : 85° 0'), Karharbari stage. A. J., **M**, LII, 19.
- Ghugri, *Jubbulpore* (64 A/3; 23° 25' : 80° 3' 30"), hematite-quartzite. L. L. F., **M**, XXXVII, 806.
- Ghugus, *Chanda* (56 M/1; 19° 56' : 79° 6' 30"), borings for coal. T. O., **R**, III, 46; T. W. H. H., **M**, XIII, 32; analysis. R. R. S., **M**, XLI, 89=Googooos.
- Ghukoorree (Ghikuria), *Khairagarh* (64 C/15; 21° 18' : 80° 48' 30"), altered Chulpi Ghat beds. P. N. B., **R**, XXI, 59.
- Ghulamī (Drab Gulbazi), *D. I. Khan* (38 P/3; 32° 18' : 71° 10' 30"), Boulder beds. Carboniferous, section. A. B. W., **M**, XVII, 276 (Pl. ii, fig. 8).
- Ghund (Garu), *Simla* (53 E/4; 31° 2' : 77° 4'), overlap of Jaunsar by Chail thrust. G. E. P., **M**, LIII, 83.
- Ghund Ghar, *Khyber* (38 O/5; 33° 59' : 71° 19'), Carboniferous limestone. H. H. H., **M**, XXVIII, 109; dolerite, 115.
- Ghunghta, *Rewah* (64 E/15; 23° 25' : 81° 52'), coal seam. T. W. H. H., **M**, XXI, 239.
- Ghungta, *Rewah* (63 H/11; 24° 19' : 81° 30'), Kheinjua limestone. P. N. D., **M**, XXXI, 148.
- Ghunsura, *Gaya* (72 H/5; 24° 58' 30" : 85° 17'), contact of schists with granite. H. B. M., **R**, II, 42.
- Ghurder, *Rewah* (63 L/7; 24° 24' : 82° 20'), Red Shale series. R. D. O., **M**, XXXI, 11.
- Ghuriakhera, *Dholpur* (54 J/2; 26° 42' : 78° 2'), selenite. A. M. H., **R**, XLV, 82.
- Ghusean, *Simur* (53 F/5; 30° 48' : 77° 17' 30"), Chail beds. G. E. P., **M**, LIII, 25.
- Ghusic (Ghoshik), *Burduan* (73 M/2; 23° 39' 30" : 87° 1'), coal seam. R. R. S., **M**, XII, 47.

- Ghutuari, *Santal Parganas* (72 P/9; 24° 51': 87° 41'), Rajmahal plants. O. F., R, IX, 39.
- Ghutra, *Korea* (64 I/7; 23° 21': 82° 16'), coal seams. T. W. H. H., M, XXI, 200, 239; L. L. F., M, XLI, 190, 192, 218.
- Ghutrog, *Sirmur* (53 F/6; 30° 43': 77° 24'), Jaunsar quartzites. G. E. P., M, LIII, 30.
- Gia, *Ladakh* (52 G/10; 33° 39': 77° 45'), Tertiary beds. R. L., R, XIII, 39=Gya.
- Gida hill, *Raigarh* (64 O/1; 21° 58': 83° 8'), Barakar beds. W. K., R, XVIII, 191.
- Giddaloor, *Kurnool* (57 I/15; 15° 22' 30": 78° 55' 30"), quartzites, Kistna series. W. K., M, VIII, 247.
- Gidi, *Hazaribagh* (73 E/6; 23° 41': 85° 22'), coal seams. A. J., M, LII, 104 (Pl. vi).
- Giga Khel, *Waziristan* (38 H/10; 32° 32': 69° 41'), glacial gravels (?). M. S., R, LIV, 95, 97.
- Gieumal, *Spiti* (52 L/4; 32° 10': 78° 10' 30"), Jurassic slates. F. S., M, V, 83; Cretaceous fossils, 114; A. S., R, XLIV, 197 (Pls. xviii, xix)=Grumal.
- Gil, *Iraq* (2 E/4; 35° 1' 30": 45° 7'), oil seepages. E. H. P., M, XLVIII, 61.
- Gilakapad, *Nellore* (57 N/12; 14° 14': 79° 36' 30"), quartz-porphry. T. H. H., M, XXXIV, 62=Gelacapad.
- Gilapani R., *Korea* (64 I/3; 23° 24': 82° 9'), coal seam. L. L. F., M, XLI, 193, 220.
- Gilhurria (Jilbani), *Santal Parganas* (72 P/5; 24° 51': 87° 24' 30"), fire-clay. M. S., R, XXXVIII, 140; coal seam, 149 (fig. & Pl. iii, fig. 2); R. R. S., M, XLI, 39.
- Giltani, *Jaipur* (54 B/9; 26° 54': 76° 38'), Delhi-Aravalli unconformity. A. M. H., R, XLVIII, 186.
- Ginaor, *Rewah* (63 H/11; 24° 27': 81° 38'), Kaimur-Rohas junction. P. N. D., M, XXXI, 159.
- Ginau, *Persia* (25 A/7; 27° 26' 30" 50° 18' 30"), Hormuz series. G. E. P., M, XLVIII, pt 2, 45; Oligocene beds, 78, 87; nummulitic limestone, 98.
- Ginau Kotal, *Persia* (25 E/15; 27° 23': 57° 50'), nummulitic limestone. G. H. T., R, LIII, 64.
- Ginga hill, *Rewah* (63 H/5; 24° 58': 81° 20'), Panna shales, section. F. R. M., M, VII, 64; barytes, 122.
- Gingee, *S. Arcot* (57 P/8; 12° 15': 79° 25'), gneiss. E. H. P., R, LXIII, 125.
- Girandola, *Sambalpur* (64 O/13; 21° 51': 83° 47'), boring for coal. W. K., R, XVIII, 197.
- Giroha, *Hunza* (42 L/14; 36° 39' 30": 74° 51'), Permo-Carboniferous limestone (?). H. H. H., R, XLV, 299.
- Giree (Ghairi), *Bijawar* (54 P/15; 24° 28' 30": 79° 52' 30"), Rewah-Kaimur junction. H. B. M., M, II, 58.
- Girga R. F., *Ranchi* (73 F/2; 22° 42': 85° 8'), granite-gneiss. J. A. D., M, LIV, 116; L. A. N., R, LXV, 515.
- Girgiri hill, *Bilaspur* (64 O/1; 21° 50': 83° 12'), syncline in Vindhyan. W. K., R, XVIII, 186.
- Giri, *Tibet* (77 D/12; 28° 11': 88° 35'), Cretaceous limestone. H. H. H., M, XXXVI, 153, 162 (Pl. viii, fig. 1).

- Giri R., *Sirmur* (53 F/6; 30° 38' : 77° 27'), Krol series. H. B. M., **M**, III, pt. 2, 43; fault. G. E. P., **M**, LIII, 11; Blaini beds, 19.
- Giridi Kaoh, *Afghanistan* (38 J/11; 34° 23' : 70° 40'), mica and hornblende-schists. C. L. G., **R**, XXV, 73; serpentinite. H. H. H., **M**, XXXIX, 41.
- Girdih, *Hazaribagh* (72 L/8; 24° 11' : 86° 18'), coalfield. W. S., **R**, XXVII, 86 (Pls. xvi-xxv); R. R. S., **M**, XLI, 40 (Pls. iv, v); earthquake, 1897. R. D. O., **M**, XXIX, 36; time record, 64, 71.
- Girshk, *Afghanistan* (34 A/9; 31° 49' : 64° 34'), post-Pliocene conglomerate. C. L. G., **M**, XVIII, 13 (fig.).
- Giryan, *Punch* (43 K/6; 33° 33' 30" : 74° 27'), glacial lakes. D. N. W., **M**, LI, 206, 314; Panjal traps, 230.
- Giriguma, *Jeypore* (65 I/16; 19° 7' 30" : 82° 51'), laterite. C. S. M., **A. R.**, 1902, 23; analysis. T. H. H., **R**, XXXII, 178; bauxite. C. S. F., **M**, XLIX, 185.
- Girnar hill, *Kathawar* (41 K/10; 21° 32' : 70° 32'), volcanic rocks. F. F., **M**, XXI, 93 (Pl. i); petrography. S. K. C., **R**, LVIII, 380 (Pls. xv-xvi).
- Girola, *Bhandara* (55 O/16; 21° 2' : 79° 56' 30"), dumortierite. E. H. P., **R**, LXII, 134; analysis. LXIII, 26; kyanite-rocks. S. K. C., **R**, LXV, 201.
- Girthi, *Almora* (62 B/2; 30° 40' : 80° 4'), Carboniferous-Rhaetic sections. C. L. G., **M**, XXIII, 109 (Pls. ii, figs. 1 & 10), copper-ore. T. H. H., **R**, XXXV, 35=Ghertee.
- Girwi, *Rewah* (63 L/11; 24° 27' : 82° 35'), Bijawar lava and breccia. E. V., **M**, XXXI, 77.
- Gisakan Mts., *Persia* (10 P/10; 28° 36' : 51° 33'), Fars series. G. E. P., **M**, XXXIV, pt. 4, 62.
- Gisgarh, *Jaipur* (54 B/9; 26° 53' : 76° 38'), steatite. F. R. M., **R**, XXII, 65; A. M. H., **R**, XLVIII, 200.
- Gishu pass, *Persia* (24 L/16; 28° 8' : 58° 50'), volcanic beds, U. Cretaceous. G. H. T., **R**, LIII, 61, 68.
- Gitaldaha, *Cooch Behar* (78 F/8; 26° 1' : 89° 29'), earthquake, 1897, sand-vents. H. H. H., **M**, XXIX, 286.
- Gitilpi, *Singbhum* (73 F/14; 22° 30' 30" : 85° 48'), 'quartz de corrosion' in granite. L. L. F., **R**, XXXIV, 164; manganese-ore. **M**, XXXVII, 459, 626.
- Giurnal, *Spiti* (52 L/4; 32° 10' : 78° 10' 30"), Cretaceous sandstone. H. H. H., **M**, XXXVI, 86; M. Jurassic limestone. C. D., **M**, XXXVI, 302=Gieumal.
- Glenrock estate, *Wynaad* (58 A/7; 11° 29' : 76° 18' 30"), gold. H. H. H., **M**, XXXIII, pt. 2, 21.
- Gna Islet, King I., *Mergui* (95 L/6; 12° 35' : 98° 24' 30"), manganese-ore. L. L. F., **M**, XXXVII, 670.
- Gora, *Almora* (62 B/11; 30° 15' 30" : 80° 32'), Haimanta beds. C. L. G., **M**, XXIII, 162.
- Goalpara, *Assam* (78 J/12; 26° 11' : 90° 37'), earthquakes: Cachar, 1869. T. O., **M**, XIX, 30; Assam, 1897. R. D. O., **M**, XXIX, 261, 317 (figs. & Pl. xxii); time record, 75; sand-vent, 103; rise of river 107; aftershocks. XXX, 9, 12; meteorite. J. C. B., **M**, XLIII, 204.
- Goalundo, *Faizpur* (79 E/14; 23° 43' : 89° 46'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 63, 71.
- Goar, *Bundi* (54 C/2; 25° 38' : 76° 14'), Sirbu shales. A. L. C., **R**, LX, 180.
- Goari, *Merwara* (45 J/8; 26° 11' 30" : 74° 27' 30"), pyrites. E. H. P., **R**, LVI, 32.



- Goas, *Murshidabad* (78 D/8; 24° 10' : 88° 29' 30"), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 328.
- Gobardanga, 24 *Parganas* (79 B/13; 22° 53' : 88° 46'), earthquake, 1897. P. N. B., **M**, XXIX, 315.
- Gobardhan, *Muttra* (54 E/7; 27° 30' : 77° 28'), Ajabgarh quartzite. A. M. H., **M**, XLV, 80.
- Gobarwahi, *Bhandara* (55 O/10; 21° 31' 30" : 79° 43' 30"), fluorite in gneiss. L. L. F., **R**, LXV, 106.
- Gobindpur, *Manbhūm* (73 I/8; 23° 4' 30" : 86° 15'), corundum. H. W., **R**, XXIX, 51.
- Gobindpur, *Saraikela* (73 F/14; 22° 44' : 85° 53' 30"), pyroxenite. J. A. D., **M**, LIV, 97 (Pl. xv, fig. 3).
- Gobindpur, *Singhbhum* (73 F/10; 22° 37' : 85° 34'), wavellite. L. L. F., **R**, XXXVI, 128.
- Gobinpoor, *Hazaribagh* (73 E/13; 23° 48' : 85° 53'), coal seams. T. W. H. H., **M**, VI, 61.
- Gobira, *Gangpur* (73 B/11; 22° 19' : 84° 44'), manganese-ore. E. H. P., **R**, LXII, 58.
- Gobugurti, *Warangal* (65 C/7; 17° 16' 30" : 80° 22'), schistose gneiss. R. B. F., **R**, XVIII, 16.
- Gobur, *Raichur* (56 H/3; 16° 18' 30" : 77° 10'), granite gneiss. R. B. F., **M**, XII, 256.
- Godamalai, *Salem* (58 I/6; 11° 41' : 78° 21'), iron-ore. T. H. H., **M**, XXX, 111 = Godumullay.
- Godar bridge (Pul-i-Shalu), *Persia* (10 I/1; 31° 47' : 50° 12'), Nummulitic-Fars series, contact. G. E. P., **M**, XXXIV, Pt. 4, 85 (Pl. xi).
- Godda, *Santal Parganas* (72 P/1; 24° 50' : 87° 13'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 110, 327.
- Godhathad, *Cutch* (41 A/10; 23° 39' : 68° 39' 30"), Nummulites. W. L. F. N., **R**, LIX, 132, 134; *Discocyclina*, 147, 150.
- Godra, *Thar Parkar* (40 K/10; 25° 40' : 70° 37'), sandstone, ? Jurassic. W. T. B., **R**, X, 11.
- Godumullay, *Salem* (58 I/6; 11° 41' : 78° 21'), iron-ore. W. K., **M**, IV, 281 (Pl. i) = Godamalai.
- Godwara, *Sirohi* (45 D/6; 24° 33' : 72° 25' 30"), marble. E. H. P., **R**, LXI, 28.
- Goer (Ghuar), *Cutch* (41 A/10; 23° 38' : 68° 32'), Nummulitic series, section. A. B. W., **M**, IX, 246.
- Goeshwar hill, *Chitaldrug* (57 B/7; 14° 25' : 76° 20'), Dharwar trap flow. R. B. F., **R**, XXI, 52.
- Gogah, *Kathiawar* (46 C/6; 21° 41' : 72° 16'), Artesian boring. H. B. M., **R**, XIV, 211=Gogo.
- Gogajipathar, *Kashmir* (43 K/9; 33° 51' : 74° 41'), *Corbicula*. B. P., **R**, LVI, 359 (Pl. xxix, fig. 8)=Gojipatri.
- Gogi, *Gulbarga*, (56 D/10; 16° 44' : 76° 45'), Bhima series. R. B. F., **M**, XII, 157.
- Gogo, *Kathiawar* (46 C/6; 21° 41' : 72° 16'), ossiferous conglomerate. W. T. B., **R**, V, 95=Gogah.
- Gogomunda, *Afghanistan* (38 F/10; 34° 34' 30" : 69° 34'), Siwalik beds. H. H. H., **M**, XXXIX, 39; gorge in metamorphic rocks, 44.

- Gogra, *Jubbulpore* (64 A/3 ; 23° 29' : 80° 12'), manganiferous iron-ore. F. R. M., R, XVI, 101 ; P. N. B., R, XXI, 75=Ghogra.
- Gogra, *Ladakh* (52 J/15 ; 34° 25' : 78° 55'), Triassic fossils. F. S., R, VII, 14 ; hot springs. R. L., M, XXII, 44 ; supra-Kuling beds, 182=Gokra.
- Gogulapalle, *Nellore* (57 M/7 ; 15° 15' 30" : 79° 19'), quartzites. R. B. F., M, XVI, 13 ; malachite, 103.
- Gogunda, *Mewar* (45 H/9 ; 24° 45' 30" : 73° 31' 30"), basement quartzite, Delhi system. L. L. F., R, LXV, 135.
- Gohadongri, *Mayurbhanj* (73 J/7 ; 22° 24' : 86° 16'), alluvial gold. P. N. B., R, XXXI, 170.
- Gohala, *Singbhum* (73 J/11 ; 22° 29' : 86° 30' 30"), kyanite. J. A. D., M, LII, 239.
- Gohna, *Garhwal* (53 N/7 ; 30° 22' : 79° 29'), landslide and lake. W. K., R, XXVII, 34 ; T. H. H., R, XXVII, 55 (Pls. viii-xiv) ; overflow of lake. C. L. G., R, XXVIII, 4.
- Gohora, *Patiala* (54 A/1 ; 27° 51' : 76° 1' 30"), copper-ore. A. M. H., R, LIV, 385.
- Gohugaon, *Nimar* (55 B/12 ; 22° 15' : 76° 44'), manganiferous breccia. L. L. F., M, XXVII, 977.
- Golkera, *Singbhum* (73 F/6 ; 22° 30' 30" : 85° 22'), cleavage in shales. J. A. D., M, LIV, 38 ; ochre, 166.
- Gojipatri, *Kashmir* (43 K/9 ; 33° 51' : 74° 41'), dip in Karewas. C. S. M., R, XLI, 120=Gogajipathar.
- Gok, *Sikkim* (78 A/4 ; 27° 6' : 88° 13' 30"), carbonaceous shales, Daling series. P. N. B., R, XXIV, 222.
- Gokak, *Belgaum* (47 L/16 ; 16° 10' : 74° 49'), Inter-trappean beds. W. T. B., R, V, 93 ; waterfall. R. B. F., M, XII, 87 (Pl. iv).
- Gokal, *Jhansi* (54 O/5 ; 25° 46' : 79° 17'), selonite. C. A. Silberrad, R, XLII, 57.
- Gokra, *Ladakh* (52 J/15 ; 34° 25' : 78° 55'), hot springs. T. O., M, XIX, 126=Gogra.
- Gokteik, *N. Shan States* (93 B/15 ; 22° 21' : 96° 50'), Crustacean beds, ? Rhætic. P. N. D., A. R., 1900, 112, 119 ; natural bridge. T. D. L., R, XXXIII, 49 (Pls. vi-viii) ; M, XXXIX, pt. 2, 24, 329, 339 ; Burma earthquake, 1912. J. C. B., M, XLII, 35, 95.
- Gokurth, *Bolan Pass* (34 O/6 ; 29° 33' : 67° 28'), sulphur. G. H. T., R, XXXVIII, 214.
- Gola R., *Naini Tal* (53 O/11 ; 29° 15' : 79° 39'), Nahan plants. C. S. M., M, XXIV, 158.
- Golabapilli (Golivepalle), *Kistna* (65 D/15 ; 16° 22' : 80° 58'), marine shells. R. B. F., M, XVI, 93.
- Golabgarh pass, *Kashmir* (43 K/15 ; 33° 29' : 74° 55'), Gondwana and Permo-Carboniferous beds, section. C. S. M., R, XXXVII, 289 (Pls. xxvi-xxviii) ; Gangamopteris beds. D. N. W., M, LI, 243.
- Golaghat, *Sibsagar* (83 F/14 ; 26° 31' : 93° 58'), Cachar earthquake, 1869. T. O., M, XIX, 26 ; earthquake, 1897, fissures. R. D. O., M, XXIX, 341.
- Golakdih, *Manbhum* (73 I/6 ; 23° 44' : 86° 26' 30"), mullite. J. A. D., M, LII, 150 (note).
- Golana, *Jaipur* (54 A/12 ; 27° 6' 30" : 76° 34' 30"), granite. A. M. H., M, XLV, 19 ; basal beds, Alwar series, 45, 46.

- Golapali, Golapilly, *Kistna* (65 D/14; 16° 43' : 80° 55'), diamond workings. W. T. B., **R**, V, 27; sandstones. W. K., **M**, XVI, 212; Rajmahal plants. **R**, VII, 159; X, 58=Kolapilli.
- Golary, *Dholpur* (54 F/7; 26° 28' : 77° 28'), L. Bhandar stage, section. F. R. M., **M**, VII, 93.
- Golawala Khare, *Shahpur* (38 P/15; 32° 29' : 71° 51'), position of Red Marl. C. S. M., **R**, XXIV, 35 (Pl. iii, fig. 9).
- Golconda, *Hyderabad* (56 K/7; 17° 23' : 78° 24'), biotite-gneiss. E. H. P., **R**, LV, 39.
- Golen, *Chitral* (38 M/13; 35° 56' : 71° 59'), crystalline limestone. H. H.-H., **R**, XLV, 283.
- Golia, *Jodhpur* (45 C/6; 25° 36' : 72° 23'), altered tuffs. T. D. L., **M**, XXXV, 65.
- Golla-Linganahalli, *Bellary* (57 B/9; 14° 58' : 76° 40'), trap dyke. R. B. F., **M**, XXV, 162; travertine, 189.
- Gollahalli, *Salem* (57 L/4; 12° 7' 30" : 78° 1'), corundum. C. S. M., **R**, XXX, 120.
- Gollapudi, *Warangal* (65 C/8; 17° 6' : 80° 21'), inlier of granitoid gneiss. R. B. F., **R**, XVIII, 13.
- Gollarahalli, *Hassan* (57 C/8; 13° 10' : 76° 17'), Dharwar outlier, old workings for gold. R. B. F., **R**, XXII, 18.
- Golra, *Rawalpindi* (43 C/14; 33° 41' 30" : 72° 58' 30"), oilfield. E. H. P., **M**, XL, 392 (figs. & Pl. lxxvii).
- Golwara, *Idar* (46 A/13; 23° 54' 30" : 72° 50'), calc-gneiss. C. S. M., **M**, XLIV, 13, 17 (Pl. ix, fig. 3).
- Gomastapur, *Malda* (78 C/6; 25° 44' : 88° 17' 30"), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 327.
- Gonda, *Hazaribagh* (73 A/13; 23° 48' 30" : 84° 58' 30"), coal seams. T. W. H. H., **M**, VII, 317; A. J., **M**, LII, 132; Mahadeva series, 136.
- Gonda, *United Provs.* (63 E/16; 27° 8' : 81° 58'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 246.
- Gondal, *Kathiawar* (41 K/13; 21° 58' : 70° 48'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 111.
- Gondala, *Godavari* (65 C/14; 17° 39' : 80° 56'), hot spring. W. K., **M**, XVIII, 173; T. O., **M**, XIX, 144=Gundala.
- Gondama Taung, *Mandalay* (93 B/4; 22° 6' : 96° 11'), quartzite. G. E. G., **A**, **R**, 1898, 54.
- Gondamardan hill, *Patna State* (64 L/13; 20° 53' : 82° 52'), laterite. V. B., **R**, X, 169.
- Gondikallel (Gund-i-Khalil), *Kashmir* (43 J/12; 34° 10' 30" : 74° 39' 30"), Kashmir earthquake, 1885. E. J. J., **R**, XVIII, 222.
- Gondra (Godhna), *Behul* (55 F/12; 22° 1' 30" : 77° 36'), biotitic granite and gneiss. H. H. H., **R**, XLVII, 37.
- Gonnyindan Anauk, *Pegu* (94 C/8; 17° 12' : 96° 21'), dam-site. E. H. P., **R**, LXII, 43.
- Gonora (Ganaura), *Bhagalpur* (72 L/10; 24° 40' : 86° 42' 30"), lead-ore. L. L. F., **R**, LIII, 282.
- Gonti (Gaunti), *Jhansi* (54 O/1; 25° 47' : 79° 9'), selenite. C. A. Silberrad, **R**, XLII, 57.

- Goodimetta, *Kistna* (65 D/2; 16° 44': 80° 9'), section, Kurnool series. R. B. F., **M**, VIII, 301 (Pl. viii, fig. 2).
- Goodjinseer (Gajansar), *Cutch* (41 E/2; 23° 36': 69° 7'), Jurassic ammonites. W. W., **R**, IV, 98.
- Goodypaud (Gudipadu), *Anantapur* (57 E/16; 15° 5' 30': 77° 59' 30"), Jammalamadugu stage, section. W. K., **M**, VIII, 82 (fig.).
- Googoos, *Chanda* (56 M/1; 19° 56': 79° 6' 30"), coal, analysis. W. T. B., **R**, I, 23; boring. T. O., **R**, II, 97=Ghugus.
- Goojadeeha, *Nilgiri, Eastern State* (73 K/11; 21° 23': 86° 39'), potstone. W. T. B., **M**, I, 261.
- Goojree, *Nimar* (46 N/11; 22° 19': 75° 30' 30"), columnar trap. W. T. B., **M**, VI, 292 (fig.).
- Gool Maira, *Hazara* (43 F/7; 34° 25' 30": 73° 24'), old moraines. C. S. M., **M**, XXVI, 133.
- Goolcheroo (Guvvalacheruvu), *Cuddapah* (57 J/15; 14° 17' 30": 78° 45'), quartzites. W. K., **M**, VIII, 150; faults, 160.
- Gooludegud (Guledgarh), *Bijapur* (47 P/16; 16° 3': 75° 47'), gold reported. R. B. F., **R**, VII, 142.
- Goomanconda (Peddagummani Konda), *Kurnool* (57 I/6; 15° 38': 78° 17' 30"), copper-ore. W. K., **M**, VIII, 268.
- Goond, *Jammu* (43 O/3; 33° 25': 75° 12'), limestones and grits. R. L., **R**, IX, 161.
- Gooneri, Goonaree, *Cutch* (41 A/13; 23° 47': 68° 51'), carbonaceous shale. A. B. W., **M**, IX, 86; Jurassic beds, 229=Guniri.
- Goonyibin Sakan, *L. Chindwin* (84 J/11; 22° 15' 30": 94° 36'), coal seam. E. H. P., **R**, LXI, 28.
- Gooramanconda (Gattimanikonda), *Kurnool* (57 I/2; 15° 32': 78° 11'), diamond mines. W. K., **M**, VIII, 103.
- Goordao Nala, *Bhandara* (55 O/10; 21° 38': 79° 33'), manganese-ore. L. L. F., **M**, XXXVII, 736.
- Goorjal, (Guruzala), *Guntur* (56 P/10; 16° 35': 79° 34' 30"), cleavage in Palnad limestone. W. K., **M**, VIII, 110 (fig.).
- Gooroo Mora, *Lakkimpur* (83 M/13; 27° 49': 95° 52'), alluvial gold. Dalton and Hannay, **M**, I, 91=Guri Mara.
- Goorooza (Garuzi), *Kohat* (38 K/16; 33° 6': 70° 58'), rock-salt and Nummulitic beds, section. A. B. W., **M**, XI, 262 (Pl. viii, figs. 42-45).
- Goorsul, *Amyhera* (46 N/3; 22° 24': 75° 2'), pre-Trappean erosion of Cretaceous beds. W. T. B., **M**, VI, 297 (fig.).
- Gooty, *Anantapur* (57 E/12; 15° 7': 77° 39'), supposed coal. R. B. F., **R**, IV, 16; R. R. S., **M**, XLI, 104.
- Gopalganj, *Seoni* (55 O/9; 21° 59': 79° 31' 30"), laterite. R. C. B., **R**, XLVIII, 204.
- Gopalprasad, Gopalpersad, *Talcher* (73 H/1; 20° 58': 85° 2'), Damuda shales with plants. W. T. B., **M**, I, 59; coal seam. **R**, V, 64; R. R. S., **M**, XLI, 38.
- Gopalpur, *Bardwan* (73 I/14; 23° 42': 86° 56'), Talchir plants. W. T. B., **M**, III, 38; coal seam. R. R. S., **M**, XLI, 45.
- Gopalpur, *Jessore* (79 E/12; 23° 8': 89° 33' 30"), meteorite. J. C. B., **M**, XLIII, 204.

- Gopat R., *Rewah* (63 L/6; 24° 31' : 82° 20'), Raniganj beds. T. W. H. H., R, XIV, 128; erosion. R. D. O., M, XXXI, 44.
- Gopavaram, *Kurnool* (57 I/11; 15° 26' : 78° 35'), hot spring. T. O., M, XIX, 148.
- Gopenpully, *Bidar* (56 G/10; 17° 40' 30" : 77° 31'), laterite. R. B. F., M, XII, 208.
- Gopichettipalaiyam, *Coimbatore* (58 E/7; 11° 27' : 77° 26'), corundum. C. S. M., R, XXIX, 47.
- Gopikandar, *Santal Parganas* (72 P/7; 24° 26' 30" : 87° 29'), carbonaceous shale. V. B., M, XIII, 186.
- Gopinathpur, *Burdwan* (73 M/2; 23° 38' : 87° 7'), colliery. W. T. B., M, III, 89.
- Gopinathpur, *Saraikela* (73 F/10; 22° 44' : 85° 40'), sheared epidiorite. J. A. D., M, LIV, 83, 109; pegmatitic granite, 108, 115 (Pl. xvi, fig. 2).
- Gopnath, *Kathiarwar* (46 C/4; 21° 12' : 72° 6' 30"), miliolite. F. F., M, XXI, 127.
- Gopo, *Hazaribagh* (73 E/10; 23° 40' : 85° 40'), coal seams. V. B., M, VI, 119; trachyte, 129.
- Gora, *Rajpipla* (46 G/9; 21° 52' : 73° 41'), marble. P. N. B., R, XXXVII, 186.
- Goragali, *Jhelum* (43 H/1; 32° 54' : 73° 9'), Nummulitic series. A. B. W., R, X, 115=Ghoragali.
- Gorah (? Gorakghat), *Chhindwara* (55 J/7; 22° 16' : 78° 29'), L. Damuda beds, section. J. G. M., M, II, 165.
- Goraia, *Rewah* (64 E/3; 23° 21' : 81° 3'), Talchir plants. O. F., R, XIII, 183.
- Gorakhpur, *Rawalpindi* (43 G/3; 33° 28' 30" : 73° 2'), Siwalik, section. D. N. W., M, LI, 337.
- Gorakona (Kamrakhhol), *Bilaspur* (64 F/7; 22° 19' : 81° 22' 30"), manganese-ore. L. L. F., R, XL, 334.
- Gorakpur, *Chhindwara* (55 J/12; 22° 5' 30" : 78° 34'), pyroxenic rocks, alteration. C. S. M., R, XLV, 129.
- Gorakpur, *United Provs.* (63 N/6; 26° 44' : 83° 21'), Kangra earthquake, 1905. C. S. M., M, XXXVIII, 248.
- Goralabode (Gorla Bodu), *Cuddapah* (57 M/4; 15° 6' : 79° 5'), Nallamalai series. W. K., M, VIII, 222 (fig.).
- Goramji hill, *Merwara* (45 G/14; 25° 39' : 73° 52'), basal beds, Aravalli system. E. H. P., R, LVIII, 65.
- Gorandi, *Larkhana* (35 N/7; 26° 21' : 67° 28'), hot spring. T. O., M, XIX, 113.
- Gorassey, *Cutch* (41 I/15; 23° 23' : 70° 48'), Jurassic-Tertiary, section. A. B. W., M, IX, 123.
- Gorchi, *Tibet* (77 H/13; 28° 51' : 89° 54'), Jurassic fossils. H. H. H., R, XXXII, 166; M, XXXVI, 160.
- Gorohutta valley, *Rewah* (64 A/15; 23° 21' : 80° 51'), Intertrappean beds. J. G. M., M, II, 201; W. K., M, XVI, 245.
- Gorghela R., *Korea* (64 I/8; 23° 2' : 82° 22') Barakar-Talchir boundary. L. L. F., M, XLI, 168; coal seams, 182, 196-200, 221-224.
- Gori, *Jaipur* (44 P/16; 28° 1' 30" : 75° 57'), granite and marble. A. M. H., R, LIV, 381.
- Goridhana, *Chhindwara* (55 K/10; 21° 44' 30" : 78° 34' 30"), inlier of crystalline rocks. E. H. P., R, LX, 93, 94.
- Gortalou (Ghortalao), *Khairagarh* (64 C/12; 21° 5' 30" : 80° 33'), Sakoli beds. V. B., R, X, 180.

- Gosalpur, *Jubbulpore* (64 A/3; 23° 24' : 80° 3' 30"), manganese-ore. F. R. M., **R**, XII, 99; XVI, 102, 116; P. N. B., **R**, XXI, 74, 77, 87 (Pl. ix); L. L. F., **M**, XXXVII, 803, 831; manganiferous laterite. P. N. B., **R**, XXII, 221 (Pl. ix); C. S. F., **M**, XLIX, 110.
- Gosee, *Hazaribagh* (73 E/9; 23° 46' 30" : 85° 36' 30"), coal seams, section. T. W. H. H., **M**, VI, 82.
- Gota, *Idar* (46 E/1; 23° 59' 30" : 73° 3' 30"), calc-gneiss. C. S. M., **M**, XLIV, 17 (Pl. ix, fig. 2).
- Gota Jan, *Sibsagar* (83 J/6; 26° 36' : 94° 23'), alluvial gold. J. M. M., **R**, XXXI, 227.
- Gotan, *Jodhpur* (45 F/10; 26° 39' 30" : 73° 43' 30"), Vindhyan limestone. A. M. H., **R**, LXV, 474.
- Goting, *Garhwal* (53 N/13; 30° 49' : 79° 49'), Haimanta beds, section. C. L. G., **M**, XXIII, 94.
- Gotlabailu (Vatlabayalu), *Nellore* (57 M/4; 15° 6' 30" : 79° 7' 30"), mica-schists. R. B. F., **M**, XVI, 12.
- Gotnandi, *Vizagapatam* (65 N/11; 18° 23' : 83° 35'), manganese-ore. L. L. F., **M**, XXXVII, 463, 1101.
- Gotri, *Ahwar* (54 A/15; 27° 25' : 76° 46' 30"), Kushalgarh limestone (?). A. M. H., **M**, XLV, 61.
- Gotriala, *Gujrat* (43 L/1; 32° 54' 30" : 74° 1'), U. Siwalik fossils. R. L., **R**, VIII, 49.
- Gourangdi, *Burdwan* (73 1/13; 23° 49' : 86° 59'), coal seam. E. H. P., **R**, LXII, 142.
- Gouri, *Surguja* (64 M/2; 23° 39' : 83° 7'), *Vertebraria*. O. F., **R**, XIII, 67.
- Gourigram, *Mymensingh* (78 L/9; 24° 46' : 90° 34'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 24.
- Govindapuram, *Bellary* (48 N/13; 14° 56' 30" : 75° 59'), hornblende-schists, Dharwar. J. M. M., **R**, XXXIV, 112.
- Govindapuram, *Vizagapatam* (65 N/11; 18° 15' 30" : 83° 42'), manganese-ore. L. L. F., **M**, XXXVII, 462-3, 1081.
- Govindkop, *Bijapur* (47 P/12; 16° 11' 30" : 75° 31'), L. Kaladgi shales. R. B. F., **M**, XII, 127.
- Gowaji, *Kashmir* (43 F/15; 34° 20' : 73° 52'), Palaeozoic formations, section. D. N. W., **R**, LXV, 203.
- Gowari, *Jubbulpore* (55 M/16; 23° 6' : 79° 55'), steatite. T. H. H., **R**, XXXIX, 274.
- Gowari Warhona, *Chhindwara* (55 K/14; 21° 31' 30" : 78° 49' 30"), manganese-ore. L. L. F., **R**, XLI, 5 (Pls. i-iii); hollandite. **M**, XXXVII, 90, 93-96; ankerite, 121; manganese-ore, 560, (fig.), 795 (Pl. xl, fig. 1).
- Goyrbank, *Puri* (73 H/11; 20° 24' : 85° 42'), boring site for coal. V. B., **R**, X, 68.
- Grange estate, *Wynaad* (58 A/7; 11° 29' 30" : 76° 17'), gold. H. H. H., **M**, XXXIII, pt. 2, 21.
- Gratnar, *Kashmir* (43 F/11; 34° 24' : 73° 44'), Infra-Triassic beds. D. N. W., **R**, LXV, 208.
- Greibee (? Gunge), *Karachi* (35 O/10; 25° 43' 30" : 67° 43'), Gaj series, *Cardium*. E. V., **M**, L, 445.

- Gridalur, *Nellore* (57 N/15; 14° 16' : 79° 46' 30"), samarskite. G. H. T., **R**, XXXVIII, 342; T. H. H., **R**, XXXIX, 271. *See also* Sankara.
- Gua, *Singhbhum* (73 F/8; 22° 13' : 85° 23'), iron-ore. H. H. H., **R**, LI, 13.
- Gubbi, *Tumkur* (57 C/15; 13° 18' 30" : 76° 57'), manganese-ore. L. L. F., **M**, XXXVII, 1152.
- Gubshi, *Tibet* (77 H/13; 28° 50' : 89° 51'), Jurassic fossils. H. H. H., **R**, XXXII, 166=Gupshi.
- Guda, *Alwar* (54 A/7; 27° 21' 30" : 76° 16'), silver-lead-ore. A. M. H., **M**, XLV, 122; asbestos, 123.
- Gudad-Rangavanhalli, *Chitaldrug* (57 B/7; 14° 17' 30" : 76° 24'), Dharwar clays. L. L. F., **M**, XXXVII, 1120.
- Gudalkep, *Kolhapur* (47 L/8; 16° 7' : 74° 27' 30"), kaolin. H. C. J., **R**, LIV, 429; pisolitic laterite. C. S. F., **M**, XLIX, 83.
- Gudalur, *Bellary* (57 A/15; 15° 19' : 77° 0'), magnetic iron-ore. R. B. F., **M**, XXV, 62, 193.
- Gudalur, *Nilgiri* (58 A/11; 11° 29' 30" : 76° 30"), charnockite. H. H. H., **M**, XXXIII, pt. 2, 13; mica. T. H. H., **M**, XXXIV, 65.
- Gudar-i-Gishu, *Persia* (24 L/16; 28° 8' : 58° 50'), lava flows. G. H. T., **R**, LIII, 68.
- Gudar Surkh, *Persia* (25 E/3; 27° 26' : 57° 4'), Eocene and Bakhtiyari series. G. E. P., **M**, XLVIII, pt. 2, 104.
- Gudha, *Bundi* (45 O/14; 25° 31' 30" : 75° 47' 30"), copper-ore. A. L. C., **R**, LX, 191.
- Gudha, *Jaipur* (45 M/9; 27° 53' : 75° 32'), granite. A. M. H., **R**, LIV, 381.
- Gudha (Gurha), *Jaipur* (54 A/8; 27° 4' : 76° 29'), Aravalli rocks. A. M. H., **R**, LIV, 358; pre-Delhi quartzite. **M**, XLV, 18.
- Gudhiari, *Ganjam* (74 A/14; 19° 34' : 84° 47'), pisolitic manganese-ore. L. L. F., **M**, XXXVII, 393, 1036.
- Gudho, *Jaipur* (54 B/9; 26° 47' : 76° 40'), Aravalli granite. A. M. H., **R**, XLVIII, 186; anticline, Delhi series, 197.
- Gudigudiem, *Kistna* (65 G/12; 17° 9' : 81° 31' 30"), U. Gondwana plants. T. H. H., **R**, XXXII, 157.
- Gudikote, *Bellary* (57 B/9; 14° 50' : 76° 38'), 'giant' screes. R. B. F., **M**, XXV, 45.
- Gudladona, *Nellore* (57 N/13; 14° 45' : 79° 49'), mica. T. H. H., **M**, XXXIV, 20.
- Gudma, *Balaghat* (64 C/5; 21° 58' 30" : 80° 27' 30"), manganese-ore. L. L. F., **M**, XXXVII, 727; bauxite. C. S. F., **M**, XLIX, 135.
- Gudramer, *Kashmir* (43 O/6; 33° 40' 30" : 75° 23'), Silurian fossils. C. S. M., **R**, XL, 214; F. C. R., **R**, XLII, 16.
- Gudri, *Singhbhum* (73 F/2; 22° 41' : 85° 13'), quartzite, Iron Ore series. J. A. D., **M**, LIV, 26.
- Gudu, *Nowgong* (83 G/5; 25° 55' : 93° 17'), mud springs. F. H. S., **M**, XXVIII, 85; E. H. P., **M**, XL, 310.
- Gudur, *Bijapur* (48 M/13; 15° 56' : 75° 55'), L. Kaladgi beds. R. B. F., **M**, XII, 104; millstones, 262.
- Gudur, *Nellore* (57 N/16; 14° 9' : 79° 51'), granite. W. K., **M**, XVI, 164; mica belt. T. H. H., **M**, XXXIV, 60.
- Gudyatam, *N. Arcot* (57 L/13; 12° 57' : 78° 52'), magnetic iron beds. R. B. F., **R**, XII, 193; syenite pegmatite. L. L. F., **R**, LXV, 112.

- Gugalu, *Raichur* (56 H/3; 16° 28': 77° 9'), pistacite-gneiss. R. B. F., **M**, XII, 257.
- Gugrod, *Alwar* (54 A/11; 27° 19': 76° 40' 30"), Kushalgarh limestone. A. M. H., **M**, XLV, 62 (Pl. xi, fig. 1); hornstone breccia, 66; Ajabgarh slates, 83.
- Guguldar, *Kashmir* (43 O/5; 33° 51': 75° 21'), Silurian fossils. C. S. M., **R**, XL, 214; F. C. R., **R**, XLII, 17.
- Guguldoh, *Nagpur* (55 O/7; 21° 26': 79° 25'), psilomelane. L. L. F., **M**, XXXVII, 99 (Pl. vi, fig. 2); rhodonite, 140; amethystine quartz, 212; manganese-ore, 943 (fig.), 947.
- Guh, *Chamba* (52 D/7; 32° 29': 76° 18'), Blaini conglomerate. C. A. M., **R**, XVIII, 88.
- Guhra, *Persia* (25 A/2; 27° 44': 56° 6'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 109 (Pl. xi, fig. 2).
- Guicha La, *Sikkim* (78 A/2; 27° 36': 88° 12'), glacier. P. N. B., **R**, XXIV, 56; T. D. L., **R**, XL, 57 (Pl. xxi).
- Guj (Gaj) R., *Kangra* (52 D/4; 32° 3': 76° 1'), former glacier. W. T., **R**, VII, 90.
- Gujadiha, *Balasore* (73 K/11; 21° 23': 86° 39'), potstone. W. T. B., **R**, V, 62.
- Gujar, *Dir* (38 M/15; 35° 18' 30": 71° 50'), granite. H. H. H., **R**, XLV, 277.
- Gujadih, *Hazaribagh* (72 L/8; 24° 9': 86° 15'), epidiorite. T. H. H., **R**, XXVIII, 138 (Pl. ix, fig. 5).
- Gujranwala, *Punjab* (43 L/4; 32° 10': 74° 11'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 165.
- Gujrat, *Punjab* (43 L/2; 32° 35': 74° 5'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 167, 203.
- Gujur, *Persia* (24 A/10; 31° 35': 56° 35' 30"), asbestos. G. H. T., **R**, LIII, 74.
- Gul Kach, *Zhob* (39 E/5; 31° 56': 69° 28' 30"), reservoir site. E. H. P., **R**, LXIII, 63.
- Gulabgarh, *Kishtwar* (52 C/3; 33° 16': 76° 10'), lazulite. T. D. L., **R**, XXIII, 65.
- Gulash Gird, *Persia* (25 E/5; 27° 59': 57° 15' 30"), Oman series. G. E. P., **M**, XLVIII, pt. 2, 8.
- Gulbarga, *Hyderabad* (56 C/15; 17° 20': 76° 50'), olivine-dolerite. R. B. F., **M**, XII, 187.
- Gulgo (Golgo), *Hazaribagh* (72 L/7; 24° 24': 86° 22'), limestone and calderite. F. R. M., **R**, VII, 34; L. L. F., **M**, XXXVII, 185; copper-ore. **R**, LIII, 264.
- Gulial, *Attock* (43 C/8; 33° 13': 72° 26'), Lower-Middle Siwalik boundary. E. H. P., **M**, XL, 407.
- Gulistan, *Persian Gulf* (25 A/4; 27° 10': 56° 11'), *Echinodiscus* beds, Miocene. G. E. P., **M**, XLVIII, pt. 2, 94.
- Gulla (Ghalha), *Nasari* (46 G/3; 21° 18': 73° 2'), Eocene fossils. A. B. W., **R**, I, 31.
- Gulmarg, *Kashmir* (43 J/8; 34° 4': 74° 22'), gneiss. R. L., **R**, XII, 17; old moraines, 29; XIV, 50; **M**, XXII, 34; earthquake, May, 1912. J. C. B., **M**, XLII, 75 (note); Gondwana beds. D. N. W., **M**, LI, 243.
- Guloti (Golet) R., *Adilabad* (56 M/8; 19° 14': 79° 24'), coal seam. T. W. H. H., **R**, XI, 21; R. R. S., **M**, XLI, 100.
- Gulu, *Singbhum* (73 F/2; 22° 34': 85° 5' 30"), mica-schist. J. A. D., **M**, LIV, 19, 56; piedmontite-phyllite, 41 (Pl. x, fig. 1).



- Gulumarri (Goddumarri), *Anantapur* (57 J/2 ; 14° 36' : 78° 1'), steatite. F. R. M., **R**, XXII, 62, 67.
- Gum Ti, *Putao* (92 E/10 ; 27° 32' : 97° 44'), lead mine. M. S., **R**, L, 251.
- Guma, *Mandi* (53 A/13 ; 31° 58' : 76° 51'), salt mines. H. B. M., **M**, III, pt. 2, 60 ; E. H. P., **M**, XL, 442 ; **R**, LIII, 18 ; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 46.
- Guma, *Jeypore* (65 J/5 ; 18° 46' : 82° 26'), granitoid gneiss. T. L. W., **A. R.**, 1900, 168.
- Guma hill, *Sirmur* (53 F/10 ; 30° 41' : 77° 32'), Krol limestone. H. B. M., **M**, III, pt. 2, 45 ; G. E. P., **M**, LIII, 35.
- Gumadam, *Vizagapatam* (65 N/11 ; 18° 26' : 83° 32'), manganese-ore. L. L. F., **M**, XXXVII, 463, 1048.
- Gumani R., *Santal Parganas* (72 P/5 ; 24° 46' : 87° 26'), Barakar beds, section. V. B., **M**, XLII, 190.
- Gumbat, *Kohat* (38 O/11 ; 33° 30' : 71° 40'), Murree beds. A. B. W., **R**, XII, 103.
- Gumbaz, *Loralai* (39 B/16 ; 30° 2' : 68° 57'), loess. R. D. O., **R**, XXV, 27.
- Gumber R., *Simla* (53 A/16 ; 31° 9' : 76° 48'), fault. H. B. M., **M**, III, pt. 2, 134.
- Gumgaon, *Nagpur* (55 K/15 ; 21° 23' 30" : 78° 59' 30"), manganese-ore. L. L. F., **M**, XXXVII, 852 (Pls. xxiv, xxv).
- Gumsur, *Ganjam* (74 A/9 ; 19° 50' : 84° 37'), mica. T. H. H., **M**, XXXIV, 58.
- Gun, *Chamba* (52 D/7 ; 32° 28' : 76° 16' 30"), Blaini conglomerate. C. A. M., **R**, XVI, 38.
- Gunah, *Jaipur* (54 B/9 ; 26° 47' 30" : 76° 38'), warm spring. A. M. H., **R**, XLVIII, 202.
- Gund, *Kashmir* (43 N/3 ; 34° 15' 30" : 75° 5'), roche moutonnée. R. D. O., **R**, XXXI, 143.
- Gund, *N. Kanara* (48 I/12 ; 15° 4' 30" : 74° 33'), manganese-ore. E. H. P., **R**, LX, 47.
- Gunda, *Attock* (43 C/10 ; 33° 34' 30" : 72° 38'), petroleum. H. B. M., **R**, XIX, 200.
- Gunda, *Bellary* (57 A/8 ; 15° 9' : 76° 24'), pyritous gneiss. L. L. F., **M**, XXXVII, 998.
- Gundala, *Godavari* (65 C/14 ; 17° 39' : 80° 56'), hot spring. W. T. B., **R**, IV, 111 =Gondala.
- Gundalpad, *Warangal* (65 C/14 ; 17° 31' 30" : 80° 57<sup>xx</sup>), Kamthi sandstones. W. T. B., **R**, V, 23.
- Gund-Ar, *Ramnad* (58 K/8 ; 9° 10' : 78° 29'), sub-recent fossils. R. B. F., **M**, XX, 67.
- Gundi, *Punch* (43 K/6 ; 33° 38' : 74° 17'), ironstone shales. D. N. W., **M**, LI, 312 ; 387.
- Gundikaram, *Karimnagar* (65 B/3 ; 18° 25' : 80° 1'), Kamthi beds. W. K., **M**, XVIII, 261.
- Gundlakamma R., *Kurnool* (57 M/N. W. ; 15° 35' : 79° 10'), change of course. R. B. F., **M**, XVI, 95.
- Gundoor (Bear's) hill, *Salem* (58 I/1 ; 11° 46' : 78° 13'), white quartz. W. K., **M**, IV, 339.
- Gundpura (Gangadar), *Kashmir* (43 O/2 ; 33° 37' : 75° 8'), anticline in Panjal beds. R. L., **R**, XI, 38.

- Gundri, *Nagpur* (55 O/3; 21° 24': 79° 12'), quartz-iron-ore. L. L. F., **R**, LIV, 46.
- Gundycotta (Gandikota), *Cuddapah* (57 J/5; 14° 49': 78° 17'), gorge, Penner R., in Bairenkonda quartzites. W. K., **M**, VIII, 31 (note), 227 (Pl. vii).
- Guneshpur, *Palamau* (73 A/13; 23° 48': 84° 54'), Barakar-Raniganj stages, sections. A. J., **M**, LII, 46=Ganespur.
- Guneshpuri, *Thana* (47 E/3; 19° 29' 30": 73° 1' 30"), hot spring. T. O., **M**, XIX, 107.
- Gungapur, *Adilabad* (56 M/7; 19° 16': 79° 26'), Maleri sandstones. W. K., **R**, XIII, 23; **M**, XVIII, 279.
- Gungavarum, *S. Arcot* (57 P/8; 12° 9': 79° 20'), granitoid gneiss. W. K., **M**, IV, 299.
- Gungavully, *Salem* (58 I/11; 11° 30': 78° 39'), trap-shoten gneiss. W. K., **M**, IV, 271.
- Gungour, *Bijawar* (54 P/14; 24° 37': 79° 52'), Kaimur conglomerate. H. B. M., **M**, II, 28.
- Gunrar, *Mewar* (45 K/12; 25° 3': 74° 36' 30"), quartzites and slates. H. B. M., **R**, I, 71=Gangra.
- Guniri (Ghuner), *Cutch* (41 A/13; 23° 47': 68° 51'), carbonaceous shale. R. R. S., **M**, XLI, 61=Goonceeri.
- Gunjong, *Cachar* (83 G/3; 25° 19': 93° 1'), tectonic boundary. T. D. L., **R**, XVI, 203.
- Gunjully, *Kohat* (38 O/15; 33° 25': 71° 46'), alum shales and sulphur pits. A. B. W., **M**, XI, 203, 293=Ganjalli.
- Gunnygull hill (Gani Ghattu), *Kurnool* (57 I/2; 15° 33': 78° 2'), faults, Gulcheru quartzites. W. K., **M**, VIII, 158; iron-ore, 277.
- Gunnypenta (Carimenapenta), *Nellore* (57 N/9; 14° 59' 30": 79° 33'), copper mines. W. K., **M**, VIII, 270; XVI, 186=Ganypittah.
- Gunoorgurh (Ganurgarh), *Bhopal* (55 F/9; 22° 50': 77° 32'), Vindhyan shales, section. W. T. B., **M**, VI, 242 (fig.); F. R. M., **M**, VII, 87.
- Gunpam, *Vizagapatam* (65 N/12; 18° 5': 83° 35'), manganese-ore. L. L. F., **M**, XXXVII, 463, 1048.
- Guntur, *Madras* (65 D/7; 16° 17': 80° 27'), Rajmahal beds. R. B. F., **M**, XVI, 77; lateritic gravels, 90; water-supply. C. L. G., **A. R.**, 1901, 12.
- Guphu, *Ranchi* (73 F/1; 22° 56': 85° 8'), inclusions of hornblende-schist in granite. L. A. N., **R**, LXV, 504 (Pl. xxvii, fig. 1); analysis, 509.
- Gupis, *Yasin* (42 H/8; 36° 13': 73° 27'), crystalline rocks. H. H. H., **R**, XLV, 297.
- Gupshi, (Gobshi), *Tibet* (77 H/13; 28° 50': 89° 51'), augite-norite. H. H. H., **M**, XXXVI, 178=Gubshi.
- Gupt Gudaoli, *Paldeo* (63 C/16; 25° 5': 80° 47'), hot spring. T. O., **M**, XIX, 137.
- Gurais, *Kashmir* (43 J/14; 34° 38': 74° 50'), syncline in Carboniferous and Triassic beds. R. L., **R**, XII, 26; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 188=Gurez.
- Gurantee (Ghadani), *Cutch* (41 E/2; 23° 32' 30": 69° 3'), quartz reef. A. B. W., **M**, IX, 216 (Pl. v, fig. 1).
- Guraru, *Rewah* (64 E/7; 23° 28' 30": 81° 19'), Raniganj plants. O. F., **R**, XIII, 186; T. W. H. H., **M**, XXI, 189; coal seam. **R**, XIV, 131.
- Gurdah, *Mirzapur* (63 L/14; 24° 36': 82° 57'), L. Vindhyan limestone. R. D. O., **M**, XXXI, 21.

- Gurdaspur, *Punjab* (43 P/8; 32° 2' 30" : 75° 24'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 182.
- Gurez, *Kashmir*. (43 J/14; 34° 38' : 74° 50'), Triassic beds. R. L., **R**, XIV, 3; **M**, XXII, 154 (Pl. i)=Gurais.
- Gurgaon, *Thana* (47 A/13; 19° 50' : 72° 49'), hot spring. T. O., **M**, XIX, 108.
- Gurgunda, *Betul* (55 F/15; 22° 16' : 77° 54' 30'), coal seam. E. H. P., **R**, LIX, 89.
- Gurguri, *Kohat* (38 K/15; 33° 18' : 70° 47'), contortion in Nummulitic limestone. A. B. W., **M**, XI, 206.
- Gurguria, *Mayurbhanj* (73 K/5; 21° 52' : 86° 15'), iron-ore. P. N. B., **R**, XXXI, 169; potstone, 173.
- Gurgurlot Mt., *Kohat* (38 O/11; 33° 27' : 71° 42'), Eocene-Siwalik, section. A. B. W., **R**, XII, 103.
- Gurhee Hubebooluh, *Hazara* (43 F/7; 34° 24' : 73° 23'), slates and schists. C. S. M., **M**, XXVI, 128=Garhi Habibulla.
- Guri Mara, *Lakhimpur* (83 M/13; 27° 49' : 95° 52'), alluvial gold. J. M. M., **R**, XXI, 223=Gooroo Mora.
- Guridand, *Rewah* (64 I/3; 23° 20' 30" : 82° 2'), coal seams. T. W. H. H., **M**, XXI, 240.
- Guril ravine, *Kashmir* (43 J/16; 34° 4' : 74° 57'), Zewan beds. R. D. O., **R**, XXXI, 7=Guryul ravine.
- Gurjulla, *Nalgonda* (56 O/7; 17° 20' : 79° 22' 30'), diorite dyke. R. B. F., **R**, XVIII, 30.
- Gurmi, *Bhind* (54 J/10; 26° 36' : 78° 31'), geodetic station. R. D. O., **M**, XLII, 218.
- Gurrah, *Hoshangabad* (55 F/14; 22° 38' : 77° 52'), water-supply. E. H. P., **R**, LV, 29.
- Gursari, *Rewah* (63 H/4; 24° 13' : 81° 2'), Kaimur-Rohtas junction. P. N. D., **M**, XXXI, 157.
- Gurtur, *Palamanu* (73 A/9; 23° 47' 30" : 84° 41'), Barakar plants. O. F., **R**, XIV, 253.
- Guru, *Tibet* (77 H/8; 28° 5' 30" : 89° 16'), Tertiary beds. H. H. H., **R**, XXXII, 166; **M**, XXXVI, 172; Cretaceous, 167.
- Gurullur (Gudali), *Nellore* (66 B/4; 14° 1' : 80° 1'), laterite on gneiss. W. K., **M**, XVI, 176.
- Gurumaishini, *Mayurbhanj* (73 J/7; 22° 18' : 86° 17'), iron-ore. P. N. B., **R**, XXXI, 168; T. H. H., **R**, XXXV, 38; XXXIX, 110 (fig.) L. L. F., **R**, LIII, 277.
- Gurumdi Mt., *Kashgar* (42 I/4; 39° 3' : 74° 15'), slates. H. H. H., **R**, XLV, 318.
- Guryul ravine, *Kashmir* (43 J/16; 34° 4' : 74° 57'), Carbo-Triassic sequence. H. H. H., **R**, XXXVI, 25, 34; C. S. M., **R**, XXXVII, 299 (Pls. xxix, xxx); XL, 237; Triassic fauna. C. D., **M**, XXXVI, 231, 268; horizon. H. H. H., **R**, XLIV, 40=Guril ravine.
- Gusar, *Bukhara* (32 J/2; 38° 37' : 66° 14'), rock-salt. E. H. P., **M**, XL, 371.
- Gusri R., *Nagod* (63 D/12; 24° 12' : 80° 37'), L. Bhandar beds. F. R. M., **M**, VII, 83.
- Gutkassara (Ghutkesar), *Atraf-i-Balda* (56 K/11; 17° 27' : 78° 41'), epidote-gneiss, R. B. F., **R**, XVIII, 29; diorite dyke, 30.

- Gutso, *Tibet* (71 L/5; 28° 47' 30": 86° 21'), ferruginous sandstone, ? Danian. A. M. H., **R**, LIV, 225.
- Gutt Richal, *Raichur* (57 E/5; 15° 59': 77° 18'), diorite dyke. R. B. F., **M**, XII, 57, 259.
- Gwa, *Sandoway* (85 K/10; 17° 35': 94° 34'), *Operculina* shales. W. T., **R**, V, 80; Pegu earthquake, 1930. J. C. B., **R**, LXV, 240.
- Gwada, *Miranzzi* (38 K/14; 33° 35': 70° 57' 30"), Jurassic (?) fossils. C. L. G., **R**, XXV, 81, 85.
- Gwadar, *Makran* (31 K/8; 25° 7': 62° 20'), Makran series. W. T. B., **R**, V, 43; mollusca. E. V., **M**, L, 352, 419, 427, etc.; Eocene foraminifera. G. H. T., **R**, LIII, 65; Zindan series, Eocene. G. E. P., **M**, XLVIII, pt. 2, 75.
- Gwaja pass, *Quetta-Pishin* (34 J/6; 30° 34': 66° 28'), syenitic granite. C. L. G., **M**, XVIII, 51.
- Gwalior, *Central India* (54 J/4; 26° 13': 78° 9'), pre-Vindhyan erosion of Gwaliors. F. R. M., **M**, VII, 56 (fig.); earthquake, 1897, time record. R. D. O., **M**, XXIX, 66, 71.
- Gwar, *Garhwal* (53 J/16; 30° 15': 78° 50'), porphyritic diorite, petrology C. S. M., **R**, XXI, 16.
- Gwaz, *Makran* (35 C/11; 25° 21' 30": 64° 42'), mud volcanoes. W. K. C., **R**, XLII, 280.
- Gwebinde, *L. Chindwin* (84 N/7; 22° 16': 95° 15' 30"), Pegu anticline. E. H. P., **R**, LXII, 103.
- Gwediadon, *Sagaing* (84 O/5; 21° 56': 95° 25'), fossil wood. R. Holden, **R**, XLVII, 267 (Pl. xxix).
- Gwelon, *Magwe* (84 P/6; 20° 35': 95° 20'), Pegu anticline. H. H. H., **R**, XLI, 73.
- Gwegyi, *Wuntho* (83 P/16; 24° 12': 95° 47'), auriferous pyrites. F. N., **R**, XXVII, 117.
- Gwegyi, *Yamethin* (93 D/4; 20° 8' 30": 96° 5' 30"), kaolin. E. H. P., **R**, LVIII, 28.
- Gweygo, *Myingyan* (84 P/1; 20° 48': 95° 1'), anticline, Pegu series. G. E. G., **M**, XXVIII, 68; E. H. P., **R**, XXXIV, 261 (Pls. xxxvi, xxxvii); **M**, XL, 124 (Pl. xxxii); G. C., **R**, XXXVII, 225 (Pl. x); Pegu series, mollusca. E. V. **M**, L, 413.
- Gya, *Bihar* (72 H/1; 24° 47': 85° 1'), soapstone. H. B. M., **R**, II, 42=Gaya.
- Gya, *Ladakh* (52 G/10; 33° 39': 77° 45'), Tertiary beds. F. S., **M**, V, 343; R. L., **M**, XXII, 108 (fig.); Kuling beds, 167=Gia.
- Gyagur lake, *Ladakh* (52 K/8; 33° 6': 78° 18'), biotite-gneiss. F. S. **M**, V, 127=Tso Kyagar.
- Gyaing R., *Amherst* (94 H/14; 16° 36': 97° 52'), manganese-ore. L. L. F., **M**, XXXVII, 669.
- Gyantse, *Tibet* (77 H/9; 28° 55': 89° 36'), dolerite dykes. H. H. H., **R**, XXXII, 169; Jurassic beds. **M**, XXXVI, 159; (Pl. xi, fig. 1); basic dykes, 178; lava flow, Jurassic, 189.
- Gyamtsongang (Gayamthasana), *Sikkim* (77 D/12; 28° 4': 88° 38'), glacial lake. H. H. H., **M**, XXXVI, 134; Jurassic fossils, 152.
- Gyangang (Gayokang), *Sikkim* (77 D/12; 28° 0' 30": 88° 35' 30"), passage of Jurassic slates to granite. H. H. H., **M**, XXXVI, 146.
- Gyetzan (Gaichund), *Spiti* (52 L/4; 32° 2': 78° 0' 30"), *Pentamerus* bed. H. H. H., **M**, XXXVI, 27.

- Gyo, *Thaton* (94 G/12; 17° 7' : 97° 40'), hot spring. T. O., **M**, XIX, 151.
- Gyo-gon, *Henzada* (85 O/1; 17° 52' : 95° 8'), 'image' stone. W. T., **M**, X, 293.
- Gyogon, *Insein* (94 C/3; 17° 15' 30" : 96° 12'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 238.
- Gyogon, *U. Chindwin* (83 L/12; 24° 9' 30" : 94° 40'), alluvial gold. H. S. B., **R**, XLIII, 253 (Pl. xxiv, fig. 2).
- Gyumdo, *Hundes* (52 L/12; 32° 4' : 78° 36'), Carboniferous beds. H. H. H., **M**, XXXVI, 38, 41.
- Gyundi R., *Spiti* (52 H/16; 32° 14' : 77° 50'), Muschelkalk fossils. A. K., A. R., 1900, 206; C. D., **M**, XXXVI, 263; Carboniferous beds. H. H. H., **M**, XXXVI, 44 (Pl. iii, fig. 1); Muschelkalk, 71; gypsum, 101.
- Haban, *Sirmur* (53 F/5; 30° 55' : 77° 19' 30"), penninite zone, Chor Mt. G. E. P., **M**, LIII, 71.
- Habb R., *Sind* (35 O/S. W.; 25° 15' : 67° 7'), Nari series, relations with Khirthar and Gaj. W. T. B., **M**, XVII, 51.
- Habiganj, *Sylhet* (78 P/7; 24° 23' : 91° 25'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 343; Srimangal earthquake, 1918. M. S., **M**, XLVI, 18.
- Hada, *Afghanistan* (38 J/7; 34° 21' : 70° 28'), talus fans. C. L. G., **R**, XXV, 72.
- Hadabanatta (Adamalnattam), *Coimbatore* (58 E/5; 11° 56' 30" : 77° 18'), auriferous reef. H. H. H., **M**, XXXIII, pt. 2, 62, 66 (Pls. viii, ix).
- Hadiabetta, *Nilgiri* (58 A/7; 11° 29' : 76° 21'), epidiorite. H. H. H., **M**, XXXIII, pt. 2, 10, 16; calcite in biotite-gneiss, 11.
- Hadikere, *Kadur* (48 O/13; 13° 45' : 75° 50'), manganese-ore. L. L. F., **M**, XXXVII, 564, 1126.
- Hadlag, *Kolhapur* (47 L/8; 16° 2' 30" : 74° 21' 30"), Dharwar granite and schist. H. C. J., **R**, LIV, 418.
- Haft Chab, *Afghanistan* (38 N/4; 34° 10' : 71° 4'), limestone, ? Cretaceous. C. L. G., **R**, XX, 24.
- Haft Kotal, *Afghanistan* (38 F/11; 34° 23' : 69° 31' 30"), Tertiary beds. H. H. H., **M**, XXXIX, 45.
- Haflong, *Cachar* (83 G/4; 25° 10' : 93° 1'), Tertiary sandstone and shale. F. H. S., **M**, XXVIII, 72.
- Haggari R., *Bellary* (57 F/1; 14° 50' : 77° 6'), sand dunes. R. B. F., **M**, XXV, 11, 19, 186.
- Haggarnur, *Bellary* (48 N/13; 14° 57' : 75° 51' 30"), Dharwar limestone. R. B. F., **M**, XXV, 88.
- Hagshu La, *Kishtwar* (52 C/6; 33° 33' : 76° 27'), sapphire. T. D. L., **R**, XXIII, 65.
- Haheh, *Hazaribagh* (73 E/5; 23° 51' 30" : 85° 19'), Ironstone shales. A. J., **M**, LII, 126.
- Haibak, *Afghanistan* (37 D/4; 36° 14' : 68° 2'), Cretaceous-Tertiary beds. C. L. G., **R**, XIX, 254; XX, 19.
- Hai-kou, *Yunnan* (92 K/12; 25° 8' : 98° 34'), andesite, petrology. R. C. B., **R**, XLIII, 221.
- Hairbal (Hazbal), *Kashmir* (43 O/6; 33° 43' : 75° 27'), Ordovician beds (?), C. S. M., **R**, XL, 212.

- Hai-taung, *N. Shan States* (93 E/4; 23° 4' : 97° 14'), granite. H. H. H., **R**, XLVII, 33.
- Hajar, *Afghanistan* (33 M/11; 35° 21' 30" : 67° 30' 30"), recumbent fold. H. H. H. **M**, XXXIX, 3; Saighan series, 30, 67 (figs.); Red Grit series, 34.
- Haji, *Kalat* (34 O/15; 29° 15' 30" : 67° 49' 30"), Baluchistan earthquake, 1909., A. M. H., **R**, XLI, 31.
- Haji Pir pass, *Kashmir* (43 K/1; 33° 58' : 74° 4'), nummulitic limestone. R. L., **R**, IX, 157; bituminous limestone, Murree series. D. N. W., **M**, LI, 285 (fig.).
- Haji Shah, *Attock* (43 C/5; 33° 53' : 72° 20'), 'erratics'. W. T., **R**, XIII, 232
- Hajiabad, *Persia* (17 P/15; 28° 18' : 55° 55'), Oman series. G. E. P., **M**, XLVIII pt. 2, 12; nummulitic limestone, 73; Bakhtiyari conglomerate, 111.
- Hajigak Kotal, *Afghanistan* (38 B/2; 34° 39' : 68° 5'), Devonian limestone and hematite. H. H. H., **M**, XXXIX, 24, 71 (Pl. iv); Devonian fossils. F. C. R., **R**, XLI, 103; L. Carboniferous fossils. H. H. H., **R**, XLIII, 16.
- Harija, *Punch* (43 G/13; 33° 46' : 73° 54'), Murree-Siwalik boundary. D. N. W., **M**, LI, 329.
- Haju, *Dehra Dun* (53 F/14; 30° 43' : 77° 48' 30"), Jaunsar quartzite. G. E. P., **M**, LIII, 45.
- Hakigora, *Singhbhum* (73 J/2; 22° 42' : 86° 9'), iron-ore. T. H. H., **R**, XXXVIII, 42; L. L. F., **R**, LIII, 272.
- Haladgaon, *Nagpur* (55 K/15; 21° 25' : 78° 59'), tourmaline-quartzite. L. L. F., **M**, XXXVII, 845.
- Halakundi, *Bellary* (57 A/16; 15° 5' : 76° 53'), Dharwar beds, section, R. B. F., **M**, XXV, 144.
- Haldibari, *Cooch Behar* (78 B/15; 26° 20' : 88° 46'), earthquake, 1897, sand-vents and fissures. R. D. O., **M**, XXIX, 103, 280.
- Halekalgudda, *Chitaldrug* (57 B/3; 14° 27' : 76° 8' 30"), Dharwar schist band, gold. R. B. F., **R**, XXI, 53.
- Halikeri, *Bijapur* (48 M/5; 15° 59' 30" : 75° 28'), flag-stones. R. B. F., **M**, XII, 262.
- Halil Rud, *Persia* (25 I/2; 27° 37' : 58° 13'), Siwalik beds. G. H. T., **R**, LIII, 67.
- Halin (Twinnayat), *Shwebo* (84 N/15; 22° 27' : 95° 49'), salt works. E. H. P., **R**, LV, 25; 'kankar'. L. L. F., **R**, LXV, 63.
- Hallagilvadi (Aligilavada), *Bellary* (48 N/14; 14° 41' : 75° 51' 30"), 'pencil' quartzite, Dharwar. R. B. F., **M**, XXV, 80.
- Hallagomallai (Alagumalai), *Coimbatore* (58 E/8; 11° 0' 30" : 77° 26' 30"), magnetic iron-ore. C. L. G., **R**, XXVIII, 152.
- Halli Maisur, *Hassan* (57 D/6; 12° 39' 30" : 76° 15' 30"), mica. T. H. H., **M**, XXXIV, 68.
- Halog, Halog, *Simla* (53 E/4; 31° 11' : 77° 2' 30"), Blaini beds. C. A. M., **R**, X, 207; Jaunsar quartzite. G. E. P., **M**, LIII, 48; carbonaceous band, Jutogh series, 109.
- Hallowi (Jebel), *Oman* (26 J/5; 22° 55' : 58° 20'), igneous rocks, Oman series. G. E. P., **M**, XXXIV, pt. 4, 12, 94.
- Haloli, *Thana* (47 A/14; 19° 40' : 72° 54'), hot spring. T. O., **M**, XIX, 108.

- Halua (Haloagaon), *Sibsagar* (83 M/8; 27° 6' 30" : 95° 17' 30"), coal seams. R. R. S., **R**, XXXIV, 213.
- Halul I., *Persian Gulf* (18 C/6; 25° 40' : 52° 23'), Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 140; ochre, 157; gypsum, 159.
- Hamairan, *Persian Gulf* (18 N/2; 26° 41' : 55° 6'), limestone, Oman series. G. E. P., **M**, XXXIV, pt. 4, 10; volcanic rocks, Hormuz series, 17, 105, 109; alum, 157.
- Hamandun, *Sibi* (34 N/7; 30° 29' : 67° 22'), volcanic rocks. E. V., **R**, XXXI, 166 (note)=Amadun.
- Hamigi, *Sangli* (48 M/16; 15° 3' : 75° 50' 30"), Dharwar quartzites. J. M. M., **R**, XXXIV, 105; potstone, 111; manganese-ore, 129; L. L. F., **M**, XXXVII, 646, 992.
- Hamirgad, *Idar* (46 E/2; 23° 37' : 73° 3' 30"), granophyre. C. S. M., **M**, XLIV, 124.
- Hamirpur, *Alwar* (54 A/6; 27° 42' : 76° 29'), amphibolite. A. M. H., **M**, XLV, 39; pegmatite, 98; copper-ore, 122.
- Hamirpur, *Idar* (46 E/2; 23° 37' 30" : 73° 9'), Delhi quartzite. C. S. M., **M**, XLIV, 89.
- Hamirpur, *United Provs.* (63 C/1; 25° 58' : 80° 10'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 246.
- Hammam Ali, *Iraq* (36° 10' : 43° 15' 30"), hot spring, sulphurous. E. H. P., **M**, XLVIII, 29.
- Hamngai, *S. Shan States* (93 G/9; 21° 53' : 97° 40'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 147.
- Hamp, *Chota Udaipur* (46 K/1; 21° 57' 30" : 74° 8'), ash breccias. W. T. B., **M**, VI, 346.
- Hampasagra, *Bellary* (57 A/4; 15° 8' 30" : 76° 3'), micaceous gneiss. R. B. F., **M**, XXV, 40; neolithic settlement, 183.
- Hampi, *Bellary* (57 A/7; 15° 20' : 76° 28'), granitoid gneiss. R. B. F., **R**, XIX, 101; **M**, XXV, 53.
- Hamrine Mts., *Persia* (2 P/7; 32° 20' : 47° 24'), Bakhtiyari series. G. E. P., **M**, XXXIV, pt. 4, 76.
- Hamsluck estate, *Nilgiri* (58 A/7; 11° 28' : 76° 23'), epidiorite. H. H. H., **M**, XXXIII, pt. 2, 10, 12, 16.
- Hanagere, *Shimoga* (48 O/5; 13° 51' : 75° 24'), manganese-ore. L. L. F., **M**, XXXVII, 1143.
- Hanaka Pass, *Persia* (24 G/5; 29° 52' : 57° 25'), Siwalik beds. G. H. T., **R**, LIII, 67.
- Handauk, *Minbu* (84 L/6; 20° 35' : 94° 18'), fault. E. H. P., **R**, LVI, 39.
- Handi Bet, *Kathiawar* (41 I/16; 23° 10' : 70° 58'), Umia beds, section. F. F., **M**, XXI, 83.
- Handigenura, *Bellary* (48 M/16; 15° 1' 30" : 75° 50'), manganese-ore. L. L. F., **M**, XXXVII, 992.
- Handwara (Handawor), *Kashmir* (43 J/7; 34° 24' : 74° 17'), lignitic coalfield. C. S. M., **R**, LV, 246 (Pl. xxx).
- Hango, *Bashahr* (53 I/9; 31° 50' : 78° 32' 30"), kyanite-schist. H. H. H., **M**, XXXVI, 9; Ordovician quartzite, 23.

- Hangpru, *Mergui* (96 I/16;  $11^{\circ} 1' : 98^{\circ} 47'$ ), tin-ore. T. H. H., R, XXXVII, 40=Hankapru.
- Hangrang pass, *Bashahr* (53 I/9;  $31^{\circ} 48' : 78^{\circ} 32'$ ), limestone and slates, ? Krol series. C. A. M., R, XII, 58; Ordovician quartzite. H. H. H., M, XXXVI, 23.
- Hangu, *Kohat* (38 O/2;  $33^{\circ} 32' : 71^{\circ} 3' 30''$ ), nummulitic limestone. A. B. W., R, XII, 107; C. L. G., R, XXV, 84; mammalian fossils. H. H. H., M, XXVIII, 99.
- Hanjam I., *Persian Gulf* (18 N/14;  $26^{\circ} 38' : 55^{\circ} 53'$ ), Makran series, fossils. W. T. B., R, V, 44=Henjam I.
- Hanjapur, *Karauli* (54 B/15;  $26^{\circ} 26' 30'' : 76^{\circ} 49'$ ), Kaimur conglomerate. A. M. H., M, XLV, 155 (Pl. xxxvi, fig. 1).
- Hankapru, *Mergui* (96 I/16;  $11^{\circ} 1' : 98^{\circ} 47'$ ), tin-ore. E. H. P., R, LIII, 20=Hangpru.
- Hanle, Hanli, *Rupshu* (52 P/1;  $32^{\circ} 47' 30'' : 79^{\circ} 0' 30''$ ), chromite. F. R. M., M, V, 166; serpentine, 172; C. A. M., M, XXXI, 319.
- Hannimkonda, *Warangal* (56 N/12;  $18^{\circ} 0' : 79^{\circ} 35'$ ), granitoid gneiss. W. K., M, XVIII, 208.
- Hansapathar, *Manblum* (73 I/10;  $23^{\circ} 38' : 86^{\circ} 39' 30''$ ), limestone quarries. F. R. M., R, X, 151; L. L. F., R, LIII, 255.
- Hansi, *Spiti* (52 H/15;  $32^{\circ} 27' : 77^{\circ} 52'$ ), Megalodon limestone. C. D., M, XXXVI, 300.
- Hansuri, *Garhwal* (53 N/4;  $30^{\circ} 0' 30'' : 79^{\circ} 2'$ ), gneissose granite. C. S. M., R, XX, 140; petrology. XXI, 25.
- Hanumanthana Kativi, *Sandur* (57B/9;  $14^{\circ} 59' : 76^{\circ} 35'$ ), manganese-ore. L. L. F., M, XXXVII, 1028.
- Hanupatta, *Ladakh* (52 B/16;  $34^{\circ} 10' : 76^{\circ} 51'$ ), Triassic limestone. R. L., R, XIII, 47.
- Hapjan, *Lakhimpur* (83 M/8;  $27^{\circ} 12' : 95^{\circ} 23'$ ), coal seams. R. R. S., R, XXXIV, 204; M, XLI, 19; E. H. P., M, XL, 292.
- Harai (E.), *Chhindwara* (55 N/2;  $22^{\circ} 37' : 79^{\circ} 13'$ ), Deccan trap flows. E. H. P., R, LX, 95.
- Harai (W.), *Chhindwara* (55 J/16;  $22^{\circ} 11' : 78^{\circ} 47' 30''$ ), coalfield. E. J. J., M, XXIV, 33 (Pl. ii).
- Haraiya, *Basti* (63 J/5;  $26^{\circ} 48' : 82^{\circ} 28'$ ), meteorite. L. L. F., R, XXXV, 90 (Pls. xiii-xv); J. C. B., M, XLIII, 206.
- Haraj, *Jhelum* (43 C/16;  $33^{\circ} 9' 30'' : 72^{\circ} 45' 30''$ ), Siwalik fossils. D. N. W., M, LI, 286.
- Haramuk, *Kashmir* (43 J/15;  $34^{\circ} 24' : 74^{\circ} 54'$ ), gneiss. R. L., R, XII, 25; glaciology. C. S. M., R, XLV, 135.
- Haramut, *Kashgar* (42 J/10;  $38^{\circ} 33' : 74^{\circ} 43'$ ), limestone and granite. H. H. H., R, XLV, 318.
- Harapala, *Hoshangabad* (55 J/3;  $22^{\circ} 27' : 78^{\circ} 14' 30''$ ), Raniganj plants. O. F., R, XII, 78.
- Harapanahalli, *Bellary* (48 N/13;  $14^{\circ} 47' 30'' : 75^{\circ} 59'$ ), potstone. R. B. F., M, XXV, 34, 204; trap dyke, 168; copper-ore, 172, 198.
- Harbargarh, *Ranchi* (73 F/9;  $22^{\circ} 57' 30'' : 85^{\circ} 41'$ ), shearing in agglomerate. J. A. D., M, LIV, 75.



- Harboi, *Kalat* (34 L/9; 28° 57' : 66° 44'), Nummulitic limestone plateau. E. V., R, XXXVIII, 194.
- Harchin, *Chitral* (42 D/8; 36° 7' : 72° 29'), Reshun conglomerate. E. H. P., R, LVI, 45.
- Hard R., *Chhindwara* (55 N/2; 22° 45' : 79° 2'), Lameta coal. R. R. S., M, XLI, 87=Hurd R.
- Hardi, *Rewah* (64 E/8; 23° 6' 30" : 81° 30'), Raniganj plants. O. F., R, XIII, 185; T. W. H. H., R, XIV, 132.
- Hardia, *Singhbhum* (73 F/16; 22° 0' 30" : 85° 52'), laterite capping on dolerite. L. A. N., R, LXV, 522.
- Hardu, *Chhindwara* (55 J/7; 22° 16' 30" : 78° 18'), fault, Bijori stage. L. L. F., R, LXV, 100.
- Hardua Khurd, *Jubbulpore* (64 A/2; 23° 33' : 80° 3' 30"), pyrolusite. P. N. B., R, XXI, 87.
- Hardun range, *Persia* (25 A/2; 27° 41' : 56° 8'), Fars series. G. E. P., M, XLVIII, pt. 2, 109.
- Hardupsai, *Singhbhum* (73 F/16; 22° 13' 30" : 85° 45' 30"), grano-dolerite. L. A. N., R, LXV, 526; analysis, 529.
- Hardur, *Hassan* (57 D/1; 12° 49' : 76° 9'), mica. T. H. H., M, XXXIV, 68.
- Hardwar, *Saharanpur* (53 K/1; 29° 57' : 78° 9'), Kangra earthquake, 1905. C. S. M., M, XXXVIII, 114=Hurdwar.
- Harenhalli, *Shimoga* (48 N/8; 14° 3' : 75° 28'), chromite. T. H. H., R, XXXIX, 27.
- H arenhalli, *Tumkur* (57 C/11; 13° 19' : 76° 43'), manganese-ore. L. L. F., M, XXXVII, 1154.
- Harewood estate, *Wynaad* (58 A/7; 11° 28' : 76° 23'), gold. H. H. H., M, XXXIII, pt. 2, 21.
- Hargandona, *Bellary* (57 A/16; 15° 8' : 76° 46' 30"), Dharwar beds, section. R. B. F., M, XXV, 134.
- Hargarh, *Jubbulpore* (64 A/3; 23° 28' : 80° 9'), pyrolusite. P. N. B., R, XXI, 84.
- Hari, *Punch* (43 K/6; 33° 44' 30" : 74° 16'), ironstone shales, D. N. W., M, LI, 312, 367; coal 366.
- Haria Jan, *Sibsagar* (83 F/16; 26° 4' : 93° 47'), trap flow. F. H. S., M, XXVIII, 79; nummulitic limestone, 82.
- Harigaon, *Garro Hills* (78 K/2; 25° 34' 30" : 90° 4'), lignite. H. B. M., R, I, 15; R. R. S., M, XLI, 23.
- Harihar, *Chitaldrug* (48 N/14; 14° 31' : 75° 48'), Dharwar band. R. B. F., R, XXI, 44.
- Haripal, *Hooghly* (79 B/1; 22° 50' : 88° 7'), Calcutta earthquake, 1906. C. S. M., R, XXXVI, 221.
- Haripur, *Hazara* (43 C/13; 34° 0' : 72° 56'), Kangra earthquake, 1905. C. S. M., M, XXXVIII, 215=Ilureepoor.
- Haripur, *Jodhpur* (45 J/4, 26° 1' : 74° 2'), rhodonite. L. L. F., M, XXXVII, 1158.
- Haripur, *Sirmur* (53 F/9; 30° 46' 30" : 77° 32'), Blaini limestone. H. B. M., M, III, pt. 2, 55; C. A. M., R, X, 208; Jutogh beds. G. E. P., M, LIII, 76.

- Haripura (Pilod), *Jaipur* (44 P/15; 28° 23' : 75° 46' 30"), meteorite. G. V. H., **R**, LX, 137 (Pl. iv).
- Harirampur, *Dacca* (79 E/14; 23° 41' 30" : 89° 57'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 331.
- Haripur, *Burdwan* (73 M/2; 23° 37' : 87° 10'), Raniganj beds, section. W. T. B., **M**, III, 87.
- Hari-Talyangar, *Bilaspur State* (53 A/10; 31° 32' : 76° 37'), M. Siwalik fauna. G. E. P., **R**, XLIII, 270, 319; E. H. P., **R**, LV, 40.
- Harnai, *Ratnagiri* (47 G/1; 17° 48' 30" : 73° 6'), aluminous laterite. C. S. F., **M**, XLIX, 93.
- Harnai, *Sibi* (34 N/16; 30° 6' : 67° 57'), Eocene beds. W. T. B., **M**, XX, 153-195; C. L. G., **R**, XXVI, 143; coal seams. W. K., **R**, XXII, 150; R. D. O., **R**, XXIII, 95, 108; R. R. S., **M**, XLI, 32.
- Harnav R., *Idar* (45 H/4; 24° 2' : 73° 10'), Delhi quartzite. C. S. M., **M**, XLIV, 80.
- Harnia, *Betul* (55 K/5; 21° 59' 30" : 78° 21'), Dharwar epidiorites. H. H. H., **R**, XLIII, 36.
- Haro R., *Attock* (43 C/6; 33° 44' : 72° 16'), boring for coal. G. F. Scott, **R**, XVII, 77.
- Harpa, *Idar* (46 A/14; 23° 34' : 72° 55'), cliffs of alluvium. C. S. M., **M**, XLIV, 143.
- Harra, *Korea* (64 I/7; 23° 18' : 82° 22'), coal seams. T. W. H. H., **M**, XXI, 240; L. L. F., **M**, XLI, 190, 194, 217.
- Harsora, *Alwar* (54 A/5; 27° 47' : 76° 27'), granite. A. M. H., **M**, XLV, 96.
- Harsur, *Chhindwara* (55 N/1; 22° 46' : 79° 8' 30'), crystalline rocks. E. H. P., **R**, LX, 95.
- Harup, *Ranchi* (73 A/7; 23° 24' : 84° 25' 30"), bauxite. C. S. F., **M**, XLIX, 175.
- Haruta, *Rawalpindi* (43 G/9; 33° 45' : 73° 33'), M. Siwalik beds. D. N. W., **M**, LI, 356.
- Hasal, *Attock* (43 C/12; 33° 10' : 72° 33'), basal beds, U. Siwalik. E. H. P., **R**, LXII, 150.
- Hasan Abdal, *Attock* (43 C/9; 33° 49' : 72° 41'), oil seepage. E. H. P., **M**, XL, 398; Echinoid bed Eocene. **R**, LXI, 125=Hasan Abdal and Hossein Abdal.
- Hasanabad glacier, *Hunza* (42 L/11; 36° 22' : 74° 36'), movements of snout. K. M., **R**, LXIII, 232 (Pl. vi, 5)=Hasanabad glacier.
- Hasdiwari (Harsdiwaridhana), *Chhindwara* (55 J/11; 22° 22' : 78° 35'), possible coalfield. E. H. P., **R**, LIX, 85.
- Hashupa, *Ladakh* (43 M/10; 35° 31' : 75° 41'), Triassic beds. R. L., **R**, XIV, 10; section. **M**, XXII, 187.
- Hasnapur hill, *Narsinghpur* (55 N/1; 22° 46' : 79° 1'), Jurassic plants. E. H. P., **R**, LXII, 27; fire-clay, 34.
- Hasnot, *Jhelum* (43 H/5; 32° 49' : 73° 19' 30"), M. Siwalik fossils. G. E. P., **R**, XLIII, 276; XLIV, 225; XLV, 4, 139=Asnot.
- Hassan, *Mysore* (57 C/4; 13° 0' : 76° 6'), mica. T. H. H., **M**, XXXIV, 68.
- Hassan Abdul, *Attock* (43 C/9; 33° 49' : 72° 41'), Trias-Tertiary, sections. C. S. M., **M**, XXVI, 217 (figs.)=Hasan Abdal and Hossein Abdal.

- Hassan Langi, *Persia* (25 A/15; 27° 22' : 56° 52'), irrigation. G. H. T., **R**, LIII, 76.
- Hasanabad glacier, *Hunza* (42 L/11; 36° 22' : 74° 36'), survey. H. H. H., **R**, XXXV, 135 (Pls. xxxi, xxxii & xxxviii); advance, 1908. H. F. Bridges, **R**, XXXVII, 221; H. H. H., **R**, XL, 339=Hasanabad glacier.
- Hassanshud, *Kohat* (38 O/8; 33° 11' : 71° 26'), Tertiary sandstone. A. B. W., **M**, XI, 290 (fig.).
- Hat Mawdon, *Khasi Hills* (78 O/12; 25° 10' 30" : 91° 34'), U. Tertiary sandstones. R. W. P., **R**, LV, 164.
- Hatai Khas, *Palamau* (72 D/4; 24° 14' : 84° 1'), graphitic schist. L. L. F., **R**, LXV, 51.
- Hatar, *Jhelum* (43 H/6; 32° 43' : 73° 22'), M.-U. Siwalik boundary. G. E. P., **R**, XLIII, 275.
- Hatbai hill, *Jubbulpore* (64 A/2; 23° 34' : 80° 12'), bauxite. C. S. F., **M**, XLIX, 113.
- Hatbalia, *Santal Parganas* (72 P/8; 24° 11' : 87° 15' 30"), hot spring. T. O., **M**, XIX, 140.
- Hatgala, *Rewah* (64 E/11; 23° 19' : 81° 40' 30"), coal seam. T. W. H. H., **M**, XXI, 240.
- Hathab, *Kathiawar* (46 C/6; 21° 35' 30" : 72° 16'), agatiferous conglomerate, Gaj series. F. F., **M**, XXI, 110.
- Hathi, *Udaipur, C. P.* (64 N/3; 22° 18' : 83° 5'), coal seams. V. B., **R**, XV, 118.
- Hathi Par, *Punch* (43 K/1; 33° 59' : 74° 11'), Gondwana basal conglomerate. D. N. W., **M**, LI, 299.
- Hathia, *Singbham* (73 F/10; 22° 43' : 85° 37' 30"), banded gneiss. J. A. D., **M**, LIV, 114.
- Hashial, *Rawalpindi* (43 G/3; 33° 24' : 73° 6'), M. Siwalik beds. D. N. W., **M**, LI, 342.
- Hathimora, *Kamrup* (78 N/8; 26° 10' : 91° 29' 30"), earthquake, 1897, change of level. R. D. O., **M**, XXIX, 162.
- Hathin, *Gurgaon* (53 H/4; 28° 2' 30" : 77° 14' 30"), Ajabgarh quartzite. A. M. H., **M**, XLV, 78.
- Hathipat, *Seoni* (55 O/9; 21° 47' : 79° 41'), lateritisation of gneiss. R. C. B., **R**, XLVIII, 208.
- Hathnikhapa, *Hoshangabad* (55 J/6; 22° 38' : 78° 18' 30"), Talchir beds. E. H. P., **R**, LXIII, 110.
- Hathoj, *Idar* (46 A/13; 23° 57' : 72° 56' 30"), quartz veins. C. S. M., **M**, XLIV, 130.
- Hathori, *Bharatpur* (54 F/1; 27° 0' : 77° 7'), trap flow, Wer stage. A. M. H., **R**, XLVIII, 192.
- Hathras, *Aligarh* (54 1/2; 27° 35' : 78° 3'), geodetic station. R. D. O., **M**, XLII, 244.
- Hathuna (Hatona), *Tonk* (45 N/16; 26° 14' : 75° 55'), rock-crystal. A. M. H., **R**, LIV, 389.
- Hatinal, *Burdwan* (73 I/14; 23° 42' : 86° 48'), coal seam. W. T. B., **M**, III, 113; shells in older alluvium, 140.
- Hatipagla, *Chota Udaipur* (46 F/15; 22° 26' : 73° 48' 30"), gneissose granite. G. V. H., **R**, LIX, 344.

- Hatitand, *Saraikela* (73 J/1;  $22^{\circ} 46' 30''$  :  $86^{\circ} 0'$ ), kyanite. J. A. D., **M**, LII, 228.
- Hatni, *Saharanpur* (53 F/16;  $30^{\circ} 13'$  :  $77^{\circ} 52'$ ), geodetic station. R. D. O., **M**, XLII, 235.
- Hatni R., *Ali-Rajpur* (46 J/11;  $22^{\circ} 18'$  :  $74^{\circ} 34'$ ), Nimar sandstones. P. N. B., **M**, XXI, 26; Lameta beds, 45; alteration of limestone by trap, 59=Huthnee R.
- Hatnora, *Bhopal* (55 F/13;  $22^{\circ} 52'$  :  $77^{\circ} 53'$ ), shells in Narbada alluvium. W. T., **M**, II, 284.
- Hatora, *Balaghat* (55 O/14;  $21^{\circ} 37' 30''$  :  $79^{\circ} 49'$ ), dannemorite (?), L. L. F., **M**, XXXVII, 148; spessartite, 170, 173; martite, 216; manganese-ore, 744.
- Hatpalu chaung, *Amherst* (94 L/10;  $16^{\circ} 40'$  :  $98^{\circ} 31'$ ), Red Sandstone series, fossils. G. C., **R**, LV, 284.
- Hatta, *Saugor* (54 P/12;  $24^{\circ} 8'$  :  $79^{\circ} 36'$ ), lithographic stone. L. L. F., **R**, L, 290.
- Hatti, *Attock* (43 C/5;  $33^{\circ} 52'$  :  $72^{\circ} 27'$ ), 'erratic'. A. B. W., **R**, X, 124; G. C. **R**, LXI, 327.
- Hatti Bellagal, *Bellary* (57 E/3;  $15^{\circ} 22'$  :  $77^{\circ} 14'$ ), brecciated quartz reef (fault-rock). R. B. F., **M**, XXV, 174.
- Hattikatti, *Dharwar* (48 M/11;  $15^{\circ} 16' 30''$  :  $75^{\circ} 39' 30''$ ), auriferous reef. R. B. F., **R**, XXI, 50=Attikatti and Huttee Kuttee.
- Hattiyal, *Tumkur* (57 C/11;  $13^{\circ} 20'$  :  $76^{\circ} 41'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1154.
- Hattu (Hatu hill), *Simla* (53 E/12;  $31^{\circ} 14' 30''$  :  $77^{\circ} 30' 30''$ ), porphyritic gneiss. H. B. M., **M**, III, pt. 2, 39; C. A. M., **R**, X, 217; petrology. XVII, 60.
- Haungpa, *Myitkyina* (92 C/3;  $25^{\circ} 29'$  :  $96^{\circ} 6'$ ), jadeite. E. H. P., **R**, LXII, 56; peridotite, 108.
- Haurbaug, *Mandi* (53 A/13;  $31^{\circ} 59'$  :  $76^{\circ} 50'$ ), 'erratics'. H. B. M., **M**, III, pt. 2, 155.
- Haussanur, *Coimbatore* (58 E/2;  $11^{\circ} 40'$  :  $77^{\circ} 9'$ ), auriferous quartz-reefs. H. H. H., **M**, XXXIII, pt. 2, 53.
- Haut, *Simla* (53 A/16;  $31^{\circ} 5'$  :  $76^{\circ} 58'$ ), old lake basin. H. B. M., **M**, III, pt. 2, 157; Blaini series. G. E. P., **M**, LIII, 95.
- Havelock I., *Andamans* (87 A/13;  $12^{\circ} 0'$  :  $93^{\circ} 0'$ ), Archipelago clay series. E. R. G., **R**, LIX, 219.
- Hawaee, *Hazaribagh* (73 E/1;  $23^{\circ} 54'$  :  $85^{\circ} 7'$ ), striated boulders in Talchirs. A. J., **M**, LII, 13.
- Hawi Arslan, *Iraq* ( $36^{\circ} 11' 30''$  :  $43^{\circ} 16'$ ), oil seepage. E. H. P., **M**, XLVIII, 32.
- Hawshuenshan, *Yunnan* (92 K/8;  $25^{\circ} 2'$  :  $98^{\circ} 26'$ ), basalt, petrology. T. D. L., **R**, XXXVI, 43=She-to-Shan.
- Hazaribagh, *Bihar* (73 E/5;  $23^{\circ} 59'$  :  $85^{\circ} 22'$ ), water-supply. H. B. M., **R**, II, 14; H. H. H., **R**, XLVII, 28; Cachar earthquake, 1869. T. O., **M**, XIX, 33; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 260.
- Hazu (Hajo), *Kamrup* (78 N/12;  $26^{\circ} 15'$  :  $91^{\circ} 31' 30''$ ), earthquake, 1897. T. D. L., **M**, XXIX, 267.
- Heerapore, *Saugor* (54 P/3;  $24^{\circ} 22'$  :  $79^{\circ} 13'$ ), Tirhowan limestone, outliers. H. B. M., **M**, II, 31, 34; Bijawar series, boundary, 47; pisolitic iron-ore, 85.

- Heggadavankote, *Mysore* (57 D/8 ; 12° 8' : 76° 20'), mica. T. H. H., **M**, XXXIV, 68.
- He-ho, *S. Shan States* (93 D/14 ; 20° 43' : 96° 50'), shelly limestone. C. S. M., **A. R.**, 1900, 134 ; lacustrine deposits, gastropoda. N. A., **R**, L, 215 ; Burma earthquake, 1912. J. C. B., **M**, XLII, 42.
- Hei-clung, *Yunnan* (101 G/11 ; 25° 22' : 101° 44' 30'), brine wells. J. C. B., **M**, XLVII, 161 ; **R**, LIV, 71, 85.
- Heinda, *Tavoy* (95 J/12 ; 14° 6' : 98° 31'), wolfram mine. J. C. B., **M**, XLIV, 298 ; **R**, L, 114.
- Heinlat R., *Mergui* (95 P/3 ; 12° 26' : 99° 6'), coal seams. P. N. B., **R**, XXVI, 155 ; analysis, 158 ; **R. R. S.**, **M**, XLI, 63=Hinlat R.
- Heinze basin, *Tavoy* (95 F/14 ; 14° 45' : 97° 55'), description. J. C. B., **M**, XLIV, 200 ; cassiterite, 270.
- Hekelu hill, *Cutch* (41 A/14 ; 23° 30' : 68° 51'), Nummulitic series, section. A. B. W., **M**, IX, 258.
- Helan, *Punch* (43 G/13 ; 33° 46' : 73° 47'), M. Siwalik stage. D. N. W., **M**, LI, 276.
- Helaw, *U. Chindwin* (83 L/12 ; 24° 11' : 94° 41'), alluvial gold. H. S. B., **R**, XLIII, 251.
- Helem, *Darrang* (83 F/5 ; 26° 49' : 93° 30'), earthquake, 1897, sand-vent. R. D. O., **M**, XXIX, 339.
- Helvak, *Satara* (47 G/11 ; 17° 22' : 73° 44'), dam-site. C. S. F., **M**, XLIX, 83.
- Henjam I., *Persian Gulf* (18 N/14 ; 26° 38' : 55° 53'), Miocene fauna. G. E. P., **M**, XXXIV, pt. 4, 41-44 ; geology, 132 (fig. ) ; brick-clay, 160=Hanjam I.
- Henry Lawrence I., *Andamans* (86 H/4 ; 12° 9' : 93° 5'), Archipelago clays. E. R. G., **R**, LIX, 221.
- Henzada, *Burma* (85 O/6 ; 17° 39' : 95° 28'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 67 ; Burma earthquake, 1912. J. C. B., **M**, XLII, 71 ; Srimangal earthquake, 1918. M. S., **M**, XLVI, 28 ; Pegu earthquake, 1930. J. C. B., **R**, LXV, 240.
- Henzei (Heinze), *Tavoy* (95 J/2 ; 14° 30' : 98° 12'), manganiferous cobalt-ore. W. T., **R**, VI, 95 ; L. L. F., **M**, XXXVII, 672.
- Herat, *Afghanistan* (29 J/3 ; 34° 20' : 62° 11'), gneiss. C. L. G., **R**, XVIII, 62 ; Cretaceous fossils. H. D., **R**, LVIII, 345.
- Herguz I., *Persian Gulf* (11 E/9 ; 27° 56' : 49° 38'), littoral concrete. G. E. P., **M**, XXXIV, pt. 4, 143.
- Hermingyi (Hamyngyi), *Tavoy* (95 J/8 ; 14° 14' : 98° 20'), cassiterite-wolfram lode. A. W. G. B., **R**, XLIII, 68 (Pl. ii) ; J. C. B., **M**, XLIV, 215 ; chalcopyrite and galena, 220, 221 ; topaz-fluorite rock, 224 ; wolfram mine, 288, 319, 325 (Pl. xxiii) ; **R**, L, 110.
- Hertoh (Harnow) R., *Hazara* (43 F/8 ; 34° 11' : 73° 19'), anthracitic coal. C. S. M., **M**, XXVI, 142 (fig.) ; analysis. G. S. L., **R**, XXIII, 272.
- Hesadi, *Singbhum* (73 F/5 ; 22° 47' : 85° 21'), calc-schist. J. A. D., **M**, LIV, 31 (Pl. xiii, fig. 4).
- Hesalong, *Hazaribagh* (73 E/6 ; 23° 41' : 85° 25'), Talchira. A. J., **M**, LII, 18 ; coal seams, 61.
- Hesamkong, *Mergui* (96 M/2 ; 11° 35' : 99° 8'), tin-ore. T. H. H., **R**, XXXVII, 40.

- Hisatu, Hazaribagh** (73 E/1; 23° 59' 30" : 85° 1'), galena. V. B., **M**, XV, 125 = Hisatu.  
**Heshapoor, Hazaribagh** (73 E/10; 23° 37' 30" : 85° 44'), overlap of Barakars on Talchirs, section. V. B., **M**, VI, 117.  
**Hewnulgur (Hulni) R., Takri** (53 J/8; 30° 13' : 78° 22'), Himalayan series. H. B. M., **M**, III, pt. 2, 67.  
**Hgehka chaung, Amherst** (94 L/5; 16° 46' : 98° 28'), Red Sandstone series, fossils. G. C., **R**, LV, 284.  
**Hidgelles (Hijili), Midnapore** (73 O/13; 21° 50' : 87° 53'), Cachar earthquake, 1869. T. O., **M**, XIX, 34.  
**Hijali, Manbhūm** (73 I/14; 23° 40' 30" : 86° 49'), coal seams. W. T. B., **M**, III, 121.  
**Hil, Punch** (43 F/12; 34° 5' : 73° 31' 30"), L. Siwalik mollusca. D. N. W., **M**, LI, 274.  
**Hil Kaka, Punch** (43 K/6; 33° 42' : 74° 25'), Gondwana beds. D. N. W., **M**, LI, 310.  
**Hilaia, Karachi** (40 D/1; 24° 52' 30" : 68° 2'), U. Ranikot beds, section. W. L. F. N., **R**, LXV, 313.  
**Hilika (Likha), Lakhimpur** (83 M/11; 27° 16' : 95° 36'), coal seam. E. H. P., **M**, XL, 306.  
**Hillan, Punch** (43 K/1; 33° 57' : 74° 14'), Gondwana outlier. D. N. W., **M**, LI, 244.  
**Hingiri, Chamba** (52 D/1; 32° 46' 30" : 76° 6'), Blaini conglomerate. C. A. M., **R**, XVI, 39.  
**Himis, Ladakh** (52 F/3; 34° 19' : 77° 4' 30"), crystalline rocks. R. L., **R**, XIII 30.  
**Hinaota, Rewah** (63 H/7; 24° 17' 30" : 81° 17' 30"), Rhotas-Kaimur junction. P. N. D., **R**, XXVIII, 149; **M**, XXXI, 157.  
**Hinarche glacier, Gilgit** (42 L/12; 36° 6' : 74° 35'), survey. H. H. H., **R**, XXXV, 127 (Pls. xvii-xix & xxxiii).  
**Hindarabi I., Persian Gulf** (18 F/10; 26° 43' : 53° 37'), littoral concrete. G. E. P., **M**, XXXIV, pt. 4, 142.  
**Hindaun, Jaipur** (54 F/2; 26° 44' : 77° 2'), Gwalior beds. A. M. H., **M**, XLV, 141 = Hindouu.  
**Hindia, Hoshangabad** (55 B/15; 22° 29' : 76° 59'), trap dykes. J. G. M., **M**, II, 227 (fig.).  
**Hindoun, Hindown, Hindon, Jaipur** (54 F/2; 26° 44' : 77° 2'), Gwalior and Vindhyan rocks. F. R. M., **M**, VII, 59; C. A. H., **R**, III, 40; X, 90 = Hindaun.  
**Hindu Chaung, Tavoy** (95 J/8; 14° 10' : 98° 27'), cassiterite. T. H. H., **R**, XXXVIII, 58.  
**Hindubagh, Zhob** (34 N/9; 30° 49' : 67° 44' 30"), Triassic fossils. C. D., **R**, XXXIV, 18, 19; chromite. H. H. H., **R**, XLVIII, 12.  
**Hines Tangi, Waziristan** (38 L/3; 32° 19' : 70° 9'), Siwalik conglomerates. M. S., **R**, LIV, 94 = Himis Tangi.  
**Hinganey (Hingni), Nander** (56 F/10; 18° 42' 30" : 77° 41'), silicified lava. K. H., **R**, XLIX, 220 (Pl. xx, figs. 1, 2).  
**Hingdag, Ranchi** (73 E/2; 23° 41' : 85° 11'), Talchirs. A. J., **M**, LII, 18.

- Hingir, *Sambalpur* (64 O/9; 21° 57' : 83° 42'), coalfield. V. B., R, IV, 101; VIII, 102; sites for boring. W. K., R, XVII, 123 (Pl. viii).
- Hingla, *Birbhum* (72 P/12; 24° 4' 30" : 87° 32' 30"), iron-ore, assay. V. B., M, XIII, 248; coal seam. E. H. P., R, LXII, 143.
- Hingladevi R., *Chhindwara* (55 J/12; 22° 11' : 78° 40'), coalfield. W. T. B., R, XV, 134; E. J. J., M, XXIV, 35 (Pl. i); R. R. S., M, XLI, 94.
- Hinglaj, *Las Bela* (35 G/10; 25° 31' 30" : 65° 31'), Makran series. W. T. B., R, V, 43.
- Hingol R., *Las Bela* (35 G/10; 25° 37' : 65° 32'), Makran series, *Ostrea*. E. V., M, L, 427.
- Hingoli, *Parbhani* (56 E/2; 19° 43' : 77° 9'), ossiferous gravels. G. E. P., R, XXXII, 200.
- Hingunghat, *Wardha* (55 L/14; 20° 33' : 78° 50'), trap and cotton soil. W. T. B., R, I, 65.
- Hingwalo, *Jaipur* (54 A/4; 27° 5' : 76° 15'), pre-Delhi rocks. A. M. H., M, XLV, 17.
- Hinhotia hill, *Narsinghpur* (55 N/1; 22° 49' : 79° 13'), disturbance of schists by granite. J. G. M., M, II, 133; Mahadeva boundary fault, 235.
- Hinis Tangi, *Waziristan* (38 L/3; 32° 19' : 70° 9'), dam-site. E. H. P., R, LXIII, 68=Hincs Tangi.
- Hiniskot, *Ladakh* (52 B/11; 34° 19' : 76° 39'), Triassic beds. R. L., R, XIII, 45; M, XXII, 177.
- Hinlat R., *Mergui* (95 P/3; 12° 26' : 99° 6'), coal seams. T. W. H. H., R, XXVI, 49=Heinlat R.
- Hinpok, *N. Shan States* (93 E/4; 23° 9' : 97° 13'), fault. J. C. B., R, XLVIII, 138.
- Hion, *Sirmur* (53 F/1; 30° 52' : 77° 15'), Blaini series. G. E. P., M, LIII, 20.
- Hir Kotli, *Kashmir* (43 F/7; 34° 26' : 73° 28'), passage beds, Eocene-Murree series. D. N. W., R, LXV, 214.
- Hira Harivana, *Bellary* (57 E/2; 15° 38' : 77° 6' 30"), epidote-granite. R. B. F., M, XXV, 177.
- Hira Khund, *Sambalpur* (64 O/14; 21° 31' 30" : 83° 52'), diamonds and gold. V. B., R, X, 188; J. M. M., R, XXXI, 61; L. L. F., R, LIII, 265.
- Hirahal, *Bellary* (57 A/16; 15° 0' 30" : 76° 50'), green gneiss. R. B. F., M, XXV, 50.
- Hiran R., *Jubbulpore* (55 M/8; 23° 7' : 79° 21'), Vindhyan boundary fault. J. G. M., M, II, 242; F. R. M., M, VII, 86 (fig.).
- Hirapur (E.), *Balaghat* (64 C/5; 21° 49' : 80° 15'), manganese-ore. L. L. F., M, XXXVII, 719, 724 (fig.).
- Hirapur (W.), *Balaghat* (55 O/10; 21° 42' : 79° 42' 30"), manganese-ore. L. L. F., M, XXXVII, 701.
- Hirdahal, *Bellary* (57 B/13; 14° 59' 30" : 76° 52'), Dharwar beds, section. R. B. F., M, XXV, 146.
- Hirdenagar, *Jubbulpore* (64 A/3; 23° 22' : 80° 1' 30"), manganese-ore. P. N. B., R, XXI, 73.
- Hiri, *Balaghat* (64 C/5; 21° 55' : 80° 29'), bauxite. C. S. F., M, XLIX, 135.
- Hiri (Here), *Belgaum* (48 I/1; 15° 53' : 74° 11'), bauxite. C. S. F., M, XLIX, 70.

- Hiriyur, *Chitaldrug* (57 C/9; 13° 57' : 76° 37'), manganese-ore. L. L. F., **M**, XXXVII, 1125.
- Hirpur, *Kashmir* (43 K/10; 33° 40' 30" : 74° 44'), Panjal trap. R. L., **R**, XI, 38 =Hurapor.
- Hirti ridge, *Simla* (53 F/4; 31° 0' : 77° 6'), Jaunsar overthrust. G. E. P., **M**, LIII, 82.
- Hirun Pali, *Barwani* (46 J/12; 22° 2' 30" : 74° 41'), brecciated veins in trap. W. T. B., **M**, VI, 269 (Pl. viii).
- Hisatu, *Hazaribagh* (73 E/1; 23° 59' 30" : 85° 1'), antimonial lead-ore. L. L. F., **R**, LIII, 252, 282=Hesatu.
- Hispur glacier, *Nagir* (42 L/16; 36° 9' : 74° 59'), survey. H. H. H., **R**, XXXV, 133 (Pls. xxv-xxvii & xxxvi); movements of snout. K. M., **R**, LXIII, 225 (Pl. vi, 1).
- Huiling, *Spiti* (52 L/12; 32° 4' : 78° 32' 30"), Carboniferous beds (†). F. S., **M**, V, 20=Huling.
- Hizumi, *Persia* (24 B/14; 30° 38' : 56° 58' 30"), Carboniferous fossils. G. H. T., **R**, LIII, 56; carbonaceous shale, 71.
- Hkakon (Hkachang), *Myitkyina* (92 C/11; 25° 28' : 96° 45'), stone quarries. E. H. P., **R**, LXIII, 29.
- Hkawkwolam, *N. Shan States* (93 F/3; 22° 26' : 97° 7'), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 290.
- Hkawngchit Hka, *Hukawng* (92 B/15; 26° 29' : 96° 59'), coal seams. L. L. F., **R**, LXV, 37.
- Hkawnghsa, *N. Shan States* (93 F/5; 22° 47' : 97° 19'), Namhsim sandstone, Silurian. T. D. L., **M**, XXXIX, pt. 2, 136.
- Hkawnhkok, *N. Shan States* (93 J/3; 22° 22' : 98° 9'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 94.
- Hkelawng, *Mandalay* (93 B/16; 22° 4' : 96° 45'), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 90.
- Hkohka, *Myitkyina* (92 C/11; 25° 28' : 96° 38' 30"), granite. E. H. P., **R**, LXIII, 98.
- Hko-hkam, *N. Shan States* (93 F/13; 22° 59' : 97° 45' 30"), Pleistocene fossils. T. D. L., **M**, XXXIX, pt. 2, 315.
- Hkompok, *S. Shan States* (93 G/13; 21° 46' : 97° 49'), antimony-ore. H. C. J., **R**, LIII, 49; J. C. B., **R**, LVI, 92.
- Hkumgahtawng, *Myitkyina* (92 C/10; 25° 31' 30" : 96° 36'), mica. E. H. P., **R**, LXIII, 47.
- Hkyawngtwang, *N. Shan States* (93 F/2; 22° 39' : 97° 1' 30"), Silurian sandstones. T. D. L., **M**, XXXIX, pt. 2, 130, 138.
- Hlay-loo-myoung-Choung, *Toungoo* (94 B/10; 18° 35' : 96° 45'), hot spring. W. T., **M**, X, 353=Kayloo Myoung.
- Hlelung (Lhelung), *Hundes* (71 L/15; 28° 17' 30" : 86° 58'), Permian fossils. A. M. H., **R**, LIV, 232.
- Hlemauk, Hleemouk, *Henzada* (85 O/1; 17° 50' : 95° 3'), coal seam. R. R., **R**, XV, 178 (Pl. xii); M. S., **R**, XLI, 259; R. R. S., **M**, XLI, 64.
- Hlowa R., *Thayetmyo* (85 I/15; 19° 15' : 94° 50'), Axial series, section. W. T., **R**, IV, 36; **M**, X, 321; Nummulitic series, section. **M**, X, 290; M. S., **R**, XLI, 249.



- Hlutsha, *Amherst* (95 E/13; 15° 47' 30" : 97° 54'), tin-ore. J. C. B., **R**, L, 104; LII, 241=Lutshan.
- Hngetkyi, *Henzada* (85 N/4; 18° 5' : 95° 11' 30"), mud vents. E. H. P., **M**, XL, 178; **M**, S., **R**, XLI, 263.
- Hobb, *Oman* (26 E/15; 23° 19' : 57° 57'), Oman series. G. E. P., **M**, XXXIV, pt. 4, 98.
- Hoharqo R., *Hazaribagh* (73 E/2; 23° 43' : 85° 12'), Barakar beds, sections. T. W. H. H., **M**, VI, 92, 94.
- Ho-hko, *N. Shan States* (93 J/8; 22° 13' : 98° 22'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 146.
- Ho-hko-nam-hpak-lun, *N. Shan States* (93 F/13; 22° 46' 30" : 97° 45'), natural bridge. T. D. L., **R**, XXXIII, 52 (fig.).
- Ho-hkun, *N. Shan States* (93 E/4; 23° 5' : 97° 7'), Chaung Magyi series, boundary. J. C. B., **R**, XLVIII, 138.
- Ho-hsa, *Yunnan* (92 H/15; 24° 25' : 97° 52'), lacustrine deposits. J. C. B., **R**, XLIII, 202.
- Hoi-hok, *N. Shan States* (93 I/4; 23° 3' 30" : 98° 5' 30"), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 80.
- Hoir, *Hazaribagh* (73 E/2; 23° 39' : 85° 2'), overfold in Barakar beds. A. J., **M**, LII, 52 (fig.); limestone, 144.
- Ho-kou, *Ssu-chuan* (101 J/3; 26° 16' : 102° 3'), coal seam. J. C. B., **M**, XLVII, 72.
- Holgere (Wolagere), *Mysore* (57 D/12; 12° 4' 30" : 76° 36' 30"), Dharwar outlier. R. B. F., **R**, XXII, 22.
- Hollal, *Bellary* (48 N/9; 14° 50' 30" : 75° 43'), Dharwar argillites. R. B. F., **M**, XXV, 78; trap dyke, 160; high level gravels, 181; sand dune, 187.
- Holund, *Belgaum* (48 I/2; 15° 43' : 74° 11'), cavern in laterite. R. B. F., **M**, XII, 211.
- Homalin, *U. Chindwin* (83 L/13; 24° 52' : 94° 55'), alluvial gold. T. H. H., **R**, XXXIX, 95; H. S. B., **R**, XLIII, 254.
- Hombalgutta, *Bellary* (57 B/1; 14° 47' 30" : 76° 2'), Dharwar limestone. R. B. F., **M**, XXV, 88.
- Homfray's Ghat, *Andamans* (87 A/10; 11° 36' : 92° 40'), serpentine. F. R. M., **R**, XVII, 86.
- Ho-mong, *N. Shan States* (93 E/4; 23° 8' : 97° 8'), Chaung Magyi series, boundary. J. C. B., **R**, XLVIII, 138.
- Honeh, *Hazaribagh* (73 A/13; 23° 54' : 84° 59'), Karharbari beds (?), section. A. J., **M**, LII, 20; coal seams, 38.
- Honnabetta, *Mysore* (57 D/9; 12° 47' : 76° 44' 30"), alluvial gold. R. B. F., **R**, XXI, 55.
- Honnahatti, *Shimoga* (48 O/9; 13° 46' : 75° 40'), old workings for gold. R. B. F., **R**, XXI, 47.
- Honnali, *Shimoga* (48 N/12; 14° 14' 30" : 75° 39'), goldfield. R. B. F., **R**, XV, 197; XXI, 46.
- Honnamaradi, *Chitaldrug* (57 B/7; 14° 28' 30" : 76° 23'), goldfield. R. B. F., **R**, XXI, 51.
- Honnebagi, *Tumkur* (57 C/11; 13° 24' : 76° 40'), manganese-ore. L. L. F., **M**, XXXVII, 1152.

- Honnur, *Bellary* (48 M/16; 15° 2' : 75° 53'), Dharwar beds, section. R. B. F., **M**, XXV, 84.
- Hontikul, *Athgarh* (73 H/14; 20° 31' : 85° 45'), plants, Atgarh sandstones. V. B., **R**, X, 64.
- Hoochloo, *Palamau* (73 A/10; 23° 44' : 84° 38' 30"), Raniganj beds. V. B., **M**, XV, 67, 84.
- Hoon, *Jhelum* (43 H/5; 32° 51' : 73° 29'), 'erratics'. A. B. W., **R**, X, 124.
- Hoondiwala, *Shahpur* (44 A/9; 31° 55' : 72° 38'), pyrrhotite. E. V., **R**, XXXI, 174=Hundewali.
- Hoorkahoorkee, *Palamau* (63 P/11; 24° 29' : 83° 40'), porcellanic beds, L. Vin-dhyan. F. R. M., **M**, VII, 36.
- Hop Gadh, *Hundes* (53 M/7; 31° 22' : 79° 16'), lakes. C. L. G., **M**, XXIII, 37 (fig.); Carboniferous-Rhætic beds, 203 (fig. & Pl. xi); Muschelkalk. C. D., **M**, XXXVI, 268; Carnic stage, 292.
- Hopar (Barpu) glacier, *Nagar* (42 L/16; 36° 10' : 74° 48'), movements of snout. K. M., **R**, LXIII, 229 (Pl. vi, 3).
- Hopong, *S. Shan States* (93 H/1; 20° 48' : 97° 10'), Permo-Carboniferous limestone. C. S. M., **A**, **R**, 1900, 136; sub-recent beds, 148.
- Horepur (Huripur), *Tippera* (79 M/2; 23° 40' : 91° 11'), mud volcano. R. D. O., **R**, XXX, 111.
- Hormara, *Las Bela* (35 C/12; 25° 12' : 64° 38' 30"), Makran series. W. T. B., **R**, V, 43=Ormara.
- Hormuz (town), *Persia* (18 I/14; 27° 32' : 54° 58'), Hormuz series. G. E. P., **M**, XLVIII, pt. 2, 16.
- Hormuz I., *Persian Gulf* (25 A/8; 27° 4' : 56° 28'), Salt formation. W. T. B., **R**, V, 42; geology. G. E. P., **M**, XXXIV, pt. 4, 130; ochre, 157; salt, 159.
- Horsborough I., *Mergui* (96 F/16; 10° 12' : 97° 55'), alluvial gold. T. H. H., **R**, XXXVIII, 56.
- Hosahalli, *Hassan* (48 O/16; 13° 2' : 75° 59'), mica. T. H. H., **M**, XXXIV, 68.
- Hosainpura (Hasanpur), *Palampur* (45 D/12; 24° 15' : 72° 32' 30"), cassiterite. T. H. H., **R**, XXXI, 43=Hoshanpur.
- Hosdurga, *Chitaldrug* (57 C/5; 13° 47' 30" : 76° 17'), manganese-ore. L. L. F., **M**, XXXVII, 1125.
- Hoshalli, *Shimoga* (48 O/13; 13° 58' : 75° 52'), manganese-ore. L. L. F., **M**, XXXVII, 573, 1146.
- Hoshalli, *Tumkur* (57 C/11; 13° 26' : 76° 38' 30"), manganese-ore. L. L. F., **M**, XXXVII, 430, 1152.
- Hoshangabad, *Central Provs.* (55 F/9; 22° 45' : 77° 43'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 66, 71=Hoshangabad.
- Hoshanpur, *Palampur* (45 D/12; 24° 15' : 72° 32' 30"), manganese-garnet. L. L. F., **M**, XXXVII, 650=Hosainpura.
- Hoshiarpur, *Punjab* (44 M/14; 31° 32' : 75° 55'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 183.
- Hoshui-tang, *Yunnan* (101 L/13; 24° 56' : 102° 58'), coal mines. J. C. B., **R**, XLIV, 106.
- Ho-shuen-shan, *Yunnan* (92 K/8; 25° 2' : 98° 28'), pumice and basalt, petrology. R. C. B., **R**, XLIII, 208.

- Hoshungabad, *Central Provs.* (55 F/9; 22° 45' : 77° 43'), Vindhyan rocks. F. R. M., **M**, VII, 54; sections, 87, 97; Rewah escarpment, 112; roofing flags, 117, =Hoshangabad.
- Hosil, *Hazaribagh* (73 E/2; 23° 41' 30" : 85° 6'), Talchir-Karharbari beds (?), sections. A. J., **M**, LII, 17, 22.
- Hosir (Husuir), *Palamau* (73 A/5; 23° 46' : 84° 19'), Talchir shales. V. B., **M**, XV, 58; iron-ore, 116.
- Hospet, *Bellary* (57 A/7; 15° 16' : 76° 23'), quartz reef. R. B. F., **M**, XXV, 158.
- Hossein Abdal, *Attock* (43 C/9; 33° 49' : 72° 41'), tepid springs. T. O., **M**, XIX, 115=Hasan Abdal and Hassan Abdul.
- Hosur (Osaur), *Coimbatore* (57 H/8; 12° 5' 30" : 77° 26'), gold workings. H. H. H., **M**, XXXIII, pt. 2, 65.
- Hosur, *Dharwar* (48 M/11; 15° 18' : 75° 34'), old workings for gold. J. M. M., **R**, XXXIV, 127.
- Hosur (Hoshalli), *Raichur* (56 D/15; 16° 21' : 76° 46' 30"), syenite gneiss. R. B. F., **M**, XII, 46.
- Hosur, *Shimoga* (48 N/8; 14° 15' : 75° 28' 30"), manganese-ore. L. L. F., **M**, XXXVII, 1133.
- Hotag hill, *Ranchi* (73 E/15; 23° 21' : 85° 50'), chromite. A. L. C., **R**, LXII, 185.
- Hotar, *Punch* (43 K/1; 33° 53' 30" : 74° 9'), Murree beds. D. N. W., **M**, LI, 320.
- Hothian, *Karachi* (35 O/14; 25° 44' 30" : 67° 53'), Khirthar-Ranikot unconformity. W. T. B., **M**, XVII, 138.
- Hothla, *Hazara* (43 G/5; 33° 58' 30" : 73° 21'), overfold in Triassic beds. C. S. M., **M**, XXVI, 202 (fig.).
- Ho-ti-tang, *Yunnan* (102 A/11; 23° 17' : 100° 39'), salt mines. J. C. B., **M**, XLVII, 176; Permo-Triassic beds. **R**, LIV, 311.
- Hoto, *Ladakh* (43 M/10; 35° 41' : 75° 43' 30"), carbonaceous shales. R. L., **R**, XIV, 15; glaciated spurs, 46; hot springs. T. O., **M**, XIX, 125.
- Hou-ching, *Yunnan* (101 G/15; 25° 17' : 101° 54' 30"), salt mines and wells. J. C. B., **M**, XLVII, 162; **R**, LIV, 71, 85.
- Ho-un, *N. Shan States* (93 F/11; 22° 19' : 97° 44' 30"). Permo-Carboniferous limestone, analysis. T. D. L., **M**, XXXIX, pt. 2, 188.
- Houssineah, *Persia* (2 K/3; 33° 16' : 46° 13'), footprint in red sandstone. G. E. P., **M**, XXXIV, pt. 4, 53.
- Howhoblum (Pedda Ahobilam), *Kurnool* (57 I/12; 15° 7' 30" : 78° 44'), folding in Kistna beds. W. K., **M**, VIII, 247 (figs.).
- Howrah, *Bengal* (79 B/6; 22° 35' : 88° 20'), earthquake, 1897. G. E. G., **M**, XXIX, 290; Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 220.
- Hpa-aing, *Minbu* (84 L/7; 20° 15' 30" : 94° 20'), steatite. H. H. H., **R**, XXIX, 71=Pa-aing.
- Hpakan, *Myitkyina* (92 C/6; 25° 37' : 96° 18' 30"), alluvial gold. E. H. P., **R**, LXII, 53; porphyritic rhyolite. LXII, 114.
- Hpalam, *N. Shan States* (93 B/9; 22° 54' : 96° 41' 30"), diorite dyke. T. D. L., **M**, XXXIX, pt. 2, 60 (Pl. vii, fig. 1).
- Hpataunggyi, *N. Shan States* (93 B/6; 22° 33' : 96° 22'), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 74 (fig. 3).

- Hpawng-aw, *N. Shan States* (93 B/12; 22° 12' 30" : 96° 43'), travertine. T. D. L., **M**, XXXIX, pt. 2, 337 (fig. 11).
- Hpimaw, *Myitkyina* (92 J/12; 26° 0' : 98° 36'), Ordovician beds. M. S., **R**, LIV, 407.
- Hpungin Hka, *Myitkyina* (92 G/5; 25° 45' : 97° 24'), biotite-syenite. M. S., **R**, L, 247=Pungin Kha.
- Hpyepat, *Myitkyina* (92 K/5; 25° 55' 30" : 98° 15'), crystalline limestone. M. S., **R**, LIV, 406; iron-ore, 409.
- Hram (Rham) Tso, *Tibet* (77 H/8; 28° 10' : 89° 22'), lake. H. H. H., **M**, XXXVI, 132.
- Hring La, *Tibet* (77 L/5; 28° 54' : 90° 21'), dyke rocks. H. H. H., **M**, XXXVI, 179.
- Hsai Kkao, *N. Shan States* (93 E/11; 23° 20' : 97° 37'), Jurassic fossils. L. L. F., **R**, LXV, 88.
- Hsataw, *Karenni* (94 E/10; 19° 38' : 97° 31' 30"), marble. C. S. M., **A. R.**, 1900, 143.
- Hsia-kuan, *Yunnan* (101 C/2; 25° 35' : 100° 13'), natural bridge. J. C. B., **R**, XLVII, 241 (Pl. xxii, fig. 1); orpiment mines. **M**, XLVII, 143.
- Hsiang-shui-kou, *Yunnan* (92 K/8; 25° 9' : 98° 29'), andesite, petrology. R. C. B., **R**, XLIII, 223, 224 (Pl. xx, figs. 2-4).
- Hsiang-yen-ching, *Yunnan* (102 A/11; 23° 24' 30" : 100° 41'), salt mines and wells. J. C. B., **M**, XLVII, 175; Permo-Triassic beds. **R**, LIV, 310.
- Hsiao-chai, *Yunnan* (92 P/10; 24° 32' : 99° 37'), schists and phyllites, Kao-liang series. J. C. B., **R**, XLVII, 263.
- Hsiao-chiao, *Yunnan* (92 P/10; 24° 42' : 99° 42'), hot spring, sulphurous. J. C. B., **R**, XLVII, 265.
- Hsiao-ching, *Yunnan* (101 K/2; 25° 36' : 102° 3'), salt mines. J. C. B., **R**, XLIV, 113.
- Hsiao-hoti-ho, *Yunnan* (92 L/5; 24° 57' : 98° 26' 30"), andesite, petrology. R. C. B., **R**, XLIII, 225.
- Hsi-fang, *Yunnan* (92 O/6; 25° 41' 30" : 99° 22'), folding in Permian beds. J. C. B., **R**, XLVII, 244.
- Hsi-ka-shan, *Yunnan* (101 G/3; 25° 18' : 101° 5'), iron smelting. J. C. B., **M**, XLVII, 93.
- Hsin Fu, *Yunnan* (102 E/2; 23° 42' : 101° 10'), Permo-Triassic beds. J. C. B., **R**, LIV, 320.
- Hsin-chuang, *Yunnan* (101 F/10; 26° 35' : 101° 36'), igneous rocks. J. C. B., **R**, LIV, 333.
- Hsin-Dawng (Sin-tawng), *S. Shan States* (93 H/2; 20° 43' : 97° 2'), recent gastropoda. N. A., **R**, L, 217.
- Hsin-ma-kai, *Yunnan* (101 D/9; 24° 46' : 100° 38'), Permo-Triassic beds. J. C. B., **R**, LIV, 321.
- Hsin-p'ing Hsien, *Yunnan* (101 H/16; 24° 4' : 101° 59'), silver mines. J. C. B., **M**, XLVII, 125.
- Hsin-tsun, *Yunnan* (101 C/6; 25° 35' : 100° 29' 30"), Permo-Carboniferous limestone. J. C. B., **R**, LIV, 81.
- Hsin-ts'un, *Yunnan* (101 L/9; 24° 49' : 102° 33'), M. Carboniferous fossils. J. C. B., **R**, XLIV, 102; **M**, XLVII, 74.

- Hsi-o Hsien, *Yunnan* (101 L/8 ; 24° 10' : 102° 25'), steel manufacture. J. C. B., **M**, XLVII, 83.
- Hsipaw, *N. Shan States* (93 F/6 ; 22° 37' : 97° 18'), river terraces. T. D. L., **M**, XXXIX, pt. 2, 321; fault-scarp, 363; Burma earthquake, 1912. J. C. B., **M**, XLII, 37; Pegu earthquake, 1930. **R**, LXV, 245.
- Hsi-shan-kai, *Yunnan* (101 C/3 ; 25° 26' : 100° 13'), iron mines. J. C. B., **M**, XLVII, 95.
- Hsongke, *N. Shan States* (93 F/11 ; 22° 26' : 97° 34' 30"), iron-ore. E. H. P., **R**, LXIII, 37.
- Haon-oi, *N. Shan States* (93 F/2 ; 22° 33' : 97° 11'), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 298.
- Hsophi, *N. Shan States* (93 J/8 ; 22° 12' : 98° 22'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 95.
- Hsum-hsai, *N. Shan States* (93 B/11 ; 22° 17' : 96° 37'), deposition of travertine. T. D. L., **M**, XXXIX, pt. 2, 24, 337; Burma earthquake, 1912. J. C. B., **M**, XLII, 35.
- Hsunkwo, *N. Shan States* (93 E/16 ; 23° 0' : 97° 46'), coal seam, analyses. T. D. L., **M**, XXXIX, pt. 2, 368.
- Hsunlong, *N. Shan States* (93 F/6 ; 22° 37' 30" : 97° 23'), rippling in Jurassic sandstones. T. D. L., **M**, XXXIX, pt. 2, 343.
- Htam Sang, *S. Shan States* (93 H/5 ; 20° 49' : 97° 20'), Permo-Carboniferous fossils. C. S. M., **A. R.**, 1900, 137.
- Htangsang, *N. Shan States* (93 F/2 ; 22° 40' : 97° 10'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 138.
- Htantalun Chaung, *Tavoy* (95 J/7 ; 14° 17' : 98° 22'), wolfram veins. J. C. B., **M**, XLIV, 287.
- Htawgaw, *Myitkyina* (92 K/5 ; 25° 57' : 98° 22'), crystalline limestone, etc., J. C. B., **R**, LIV, 406.
- Htawphan, *Mergui* (96 I/15 ; 11° 18' : 98° 57'), oil shale. E. H. P., **R**, LVIII, 31.
- Hteepahtoh, *Toungoo* (94 G/1 ; 17° 52' : 97° 6'), hot spring. T. O., **M**, XIX, 151.
- Htengnoi, *N. Shan States* (93 F/7 ; 22° 24' : 97° 18'), Fusulina limestone. T. D. L., **M**, XXXIX, pt. 2, 262, 286; river terraces, 321; fault-scarp, 363.
- Htichara (Tichara), *Amherst* (94 L/5 ; 16° 46' : 98° 26'), freshwater limestone, fauna. N. A., **R**, LV, 97 (Pls. vi, vii); LVI, 104 (figs. & Pl. xiv); oil shales, G. C., **R**, LV, 290 (Pls. xxxiv, xxxv).
- Hti-phan-ko R., *Mergui* (95 L/15 ; 12° 25' : 98° 57'), coal seams. T. W. H. H., **R**, XXV, 162; XXVI, 41, 50; R. R. S., **M**, XLI, 62.
- Htiwapalaw (Tiwablaw), *Amherst* (94 L/5 ; 16° 46' : 98° 21' 30"), oil shales. G. C., **R**, LV, 296.
- Hua-chiao, *Yunnan* (92 O/7 ; 25° 22' : 99° 29'), metamorphic rocks. J. C. B., **R**, XLVII, 238.
- Hua-ch'iao, *Yunnan* (101 K/6 ; 25° 35' 30" : 102° 18'), igneous rocks, Permian. J. C. B., **R**, XLIV, 105.
- Huang-ho-chai, *Yunnan* (102 A/12 ; 23° 3' 30" : 100° 37'), Triassic limestone and conglomerate. J. C. B., **R**, LIV, 314.
- Huang-lien-pu, *Yunnan* (92 O/14 ; 25° 31' : 99° 46'). Red beds, Permian. J. C. B., **R**, XLVII, 239.

- Huang-tsao-pa, *Yunnan* (92 L/14;  $24^{\circ} 39' : 98^{\circ} 48'$ ), hot spring. J. C. B., **R**, XLVII, 251.
- Huan-hsi-po, *Yunnan* (92 K/8;  $25^{\circ} 10' : 98^{\circ} 22'$ ), quartzites and phyllites. J. C. B., **R**, XLIII, 188.
- Hubli, *Dharwar* (48 M/3;  $15^{\circ} 20' : 75^{\circ} 8'$ ), boring for water. C. S. M., **R**, XLV, 118.
- Hudelur, *Bijapur* (47 P/15;  $16^{\circ} 19' : 75^{\circ} 47'$ ), L. Kaladgi limestone, weathering. R. B. F., **M**, XII, 121.
- Hudsa, *N. Kanara* (48 I/12;  $15^{\circ} 8' 30'' : 74^{\circ} 31'$ ), manganese-ore. E. H. P., **R**, LX, 47.
- Hugaluru, *Bellary* (48 N/13;  $14^{\circ} 58' : 75^{\circ} 58'$ ), hornblende-schist, Dharwar. J. M. M., **R**, XXXIV, 112.
- Hugli, *Bengal* (79 B/5;  $22^{\circ} 55' : 88^{\circ} 24'$ ), earthquake, 1897, time record. R. D. O., **M**, XXIX, 63, 71.
- Huharo R., *Palamau* (73 A/14;  $23^{\circ} 44' : 84^{\circ} 57'$ ), Barakar beds. A. J., **M**, LII, 62.
- Hui-li Chou, *Ssu-chuan* (101 J/6;  $26^{\circ} 39' : 102^{\circ} 15'$ ), coalfield. J. C. B., **M**, XLVII, 72; copper mines, 121; granite and limestone. **R**, LIV, 336.
- Hui-yao, *Yunnan* (101 D/14;  $24^{\circ} 32' : 100^{\circ} 51'$ ), Triassic limestone (?). J. C. B., **R**, LIV, 320.
- Huldee, *Chanda* (56 M/13;  $19^{\circ} 52' : 79^{\circ} 47'$ ), pyroxenite, charnockite series. K. H., **R**, LV, 256 (Pl. xxxi).
- Huldia, *Puri* (73 H/11;  $20^{\circ} 17' : 85^{\circ} 35'$ ), Athgarh sandstones. V. B., **R**, X, 66.
- Hulfergah (Halbarga), *Bidar* (56 G/5;  $18^{\circ} 0' : 77^{\circ} 20'$ ), manganese-ore. L. L. F., **M**, XXXVII, 990.
- Hulgiri, *Bijapur* (47 P/12;  $16^{\circ} 5' : 75^{\circ} 35'$ ), L. Kaladgi shales. R. B. F., **M**, XII, 128.
- Hulh, *Chamba* (52 D/2;  $32^{\circ} 38' : 76^{\circ} 11'$ ), Blaini conglomerate. C. A. M., **R**, XVI, 38; hornblende-andesite, petrology. XVIII, 99.
- Hulikeri, *Bijapur* (48 M/9;  $15^{\circ} 59' 30'' : 75^{\circ} 36'$ ), laterite. R. B. F., **M**, XII, 221.
- Huling, *Spiti* (52 L/12;  $32^{\circ} 4' : 78^{\circ} 32' 30''$ ), gypsum. F. R. M., **M**, V, 156, Carboniferous limestone. H. H. H., **M**, XXXVI, 41; gypsum, 101=Hiuling.
- Huliyar, *Tumkur* (57 C/10;  $13^{\circ} 35' : 76^{\circ} 32' 30''$ ), altered peridotite, petrology. T. H. H., **M**, XXXIV, 2.
- Hullee, *Hazara* (43 G/1;  $33^{\circ} 52' : 73^{\circ} 7' 30''$ ), Jurassic beds, section. C. S. M., **M**, XXVI, 212 (fig.).
- Hunairah, *Iraq* ( $36^{\circ} 10' : 43^{\circ} 17'$ ), sulphur spring. E. H. P., **M**, XLVIII, 32.
- Hunang, *N. Shan States* (93 F/2;  $22^{\circ} 44' 30'' : 97^{\circ} 8'$ ), volcanic rocks, Bawdwin series. T. D. L., **M**, XXXIX, pt. 2, 56.
- Hunase-marada Kativi, *Sandur* (57 B/9;  $14^{\circ} 59' : 76^{\circ} 35'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1014, 1031.
- Hundewali, *Shahpur* (44 A/9;  $31^{\circ} 55' : 72^{\circ} 38'$ ), pyrrhotite. A. M. H., **R**, XLIII, 235=Hoondiwala.
- Hundi Piran, *Punch* (43 K/1;  $33^{\circ} 56' 30'' : 74^{\circ} 15'$ ), Kopra gneiss. D. N. W., **M**, LI, 299.

- Hungwe, *N. Shan States* (93 E/4; 23° 6' 30" : 97° 11'), pyrites. H. H. H., **R**, XLVII, 24.
- Hunj, *Idar* (46 E/2; 23° 38' : 73° 10'), mica-schist, Delhi quartzite series. C. S. M., **M**, XLIV, 88.
- Hunshahuti, *Sandur* (57 A/8; 15° 9' : 76° 28'), hematite quartzites. R. B. F., **M**, XXV, 111.
- Hunsur, *Mysore* (57 D/7; 12° 18' : 76° 17'), corundum. T. H. H., **R**, XXXIX, 243.
- Hunugunda, *Bijapur* (56 D/4; 16° 4' : 76° 3'), schistose band, gneissic series. R. B. F., **M**, XII, 42.
- Hunwala, *Jhelum* (43 H/5; 32° 51' : 73° 29'), overthrust of Cambrians. L. L. F., **R**, LXV, 119.
- Hura, *Santal Parganas* (72 P/5; 24° 59' : 87° 23'), coalfield. V. B., **M**, XIII, 195 (Pl. x); R. R. S., **M**, XLI, 38; borings. W. K., **R**, XXIII, 5; XXIV, 3; fire-clay. M. S., **R**, XXXVIII, 140.
- Hural (Horial) R., *Burdwan* (73 I/14; 23° 41' : 86° 51'), Raniganj stage, section. W. T. B., **M**, III, 114.
- Hurapor, *Kashmir* (43 K/10; 33° 40' 30" : 74° 44'), epidiorite. D. N. W., **M**, LI, 222=Hirpur.
- Hurd R., *Chhindwara* (55 N/2; 22° 45' : 79° 2'), U. Damuda (Lameta) beds, section. J. G. M., **M**, II, 180; coal seams, 270=Hard R.
- Hurda, *Hoshangabad* (55 F/3; 22° 20' : 77° 5'), metamorphic rocks. W. T. B., **M**, VI, 191, 247.
- Hurdwar, *Saharanpur* (53 K/1; 29° 57' : 78° 9'), gorge in Siwalik range. H. B. M., **M**, III, pt. 2, 122=Hardwar.
- Hureepoor, *Hazara* (43 C/13; 34° 0' : 72° 56'), Slate series. C. S. M., **M**, XXVI, 97=Haripur.
- Huri, *Tehri* (53 J/9; 30° 54' : 78° 41'), hot spring. T. O., **M**, XIX, 123.
- Hurilaong, *Palamau* (72 D/8; 24° 2' : 84° 22'), geodetic station. R. D. O., **M**, XLII, 221.
- Hurlihal, *Bellary* (57 B/10; 14° 43' : 76° 33'), porphyry. R. B. F., **M**, XXV, 170, 201.
- Hurma, *Rewah* (63 L/10; 24° 32' : 82° 31'), L. Vindhyan limestone. F. R. M., **M**, VII, 39; R. D. O., **M**, XXXI, 16, 21, 162; hot spring. T. O., **M**, XIX, 137.
- Huroor, *Salem* (57 I/8; 12° 3' : 78° 29'), trap dykes. W. K., **M**, IV, 333; cavities in quartz, 337.
- Hurreechunder, *Thana* (47 E/15; 19° 23' : 73° 47'), basaltic dykes. G. T. Clark, **R**, XIII, 72.
- Hurriaghur, *Chhindwara* (55 J/12; 22° 9' : 78° 30'), Talchir beds. J. G. M., **M**, II, 151.
- Husaini (Sesoni), *Hunza* (42 L/15; 36° 26' : 74° 52'), calcareous slates. H. H. H., **R**, XLV, 297.
- Hushi, *Ladakh* (52 A/3; 35° 16' : 76° 11'), lacustrine beds. R. L., **R**, XIV, 9.
- Hutar, *Palamau* (73 A/1; 23° 56' : 84° 11'), coalfield. V. B., **M**, XV, 91 (Pl. iii); R. P. S., **M**, XLI, 59; re-survey. E. H. P., **R**, LXII, 147.
- Hutar, *Rawalpindi* (43 G/6; 33° 40' 30" : 73° 28'), M. Siwalik beds. D. N. W., **M**, LI, 356.

- Huthnee R., *Ali-Rajpur* (46 J/11 ; 22° 18' : 74° 34'), Cretaceous inliers. W. T. B., **M**, VI, 310=Hatni R.
- Hutk, *Persia* (24 B/14 ; 30° 35' : 56° 57'), Carboniferous fossils. G. H. T., **R**, LIII, 56 ; Permo-Carboniferous-Jurassic, section. G. E. P., **M**, XLVIII, pt. 2, 9 (fig.), 23, 56.
- Hutnapur, *Narsinghpur* (55 N/1 ; 22° 47' : 79° 1' 30'), Mahadeva conglomerate. J. G. M., **M**, II, 187.
- Hutob (Hutap), *Ranchi* (73 A/14 ; 23° 38' 30" : 84° 59' 30"), limestone. A. J., **M**, LII, 144.
- Huttee-Kuttee, *Dharwar* (48 M/11 ; 15° 16' 30" : 75° 39'), auriferous reef. R. B. F., **R**, VII, 135=Attikatti and Hattikatti.
- Hutti, *Raichur* (56 D/12 ; 16° 12' : 76° 39'), goldfield. T. H. H., **R**, XXXIX, 89
- Hututua, *Singhbhum* (73 F/2 ; 22° 35' 30" : 85° 13'), folding in epidiorite. J. A. D., **M**, LIV, 88.
- Hutwoo, *Ali-Rajpur* (46 J/8 ; 22° 9' : 74° 29'), sill in Cretaceous sandstone. W. T. B., **M**, VI, 309.
- Huvelian, *Hazaru* (43 F/4 ; 34° 3' : 73° 10'), fossils in limestone intercalated with Attock slates. A. B. W., **R**, XII, 121 ; Triassic limestone. C. S. M., **M**, XXVI, 149.
- Hovina Hudagalli, *Bellary* (48 M/16 ; 15° 1' 30" : 75° 56'), old diamond pits. R. B. F., **R**, XXII, 43 ; crystalline limestone. **M**, XXV, 88, 204.
- Hwo-gna-sang R., *N. Shan States* (93 B/6 ; 22° 40' : 96° 29'), alluvial gold. J. C. B., **R**, XLII, 40, 45 (Pl. xii).
- Hwe-hok, *N. Shan States* (93 J/3 ; 22° 21' 30" : 98° 11'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 94.
- Hweka, *Myitkyina* (92 C/7 ; 25° 29' : 96° 16' 30'), jadeite. A. W. G. B., **R**,<sup>a</sup> XXXVI, 256 (Pl. xxxvi) ; E. H. P., **R**, LXII, 56.
- Hwe-Mawng, *S. Shan States* (93 G/9 ; 21° 56' : 97° 44'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 96.
- Hwo-noi, *S. Shan States* (93 G/9 ; 21° 46' : 97° 32' 30"), graptolites. H. C. J., **R**, LI, 156.
- Hwe-wa, *S. Shan States* (93 G/13 ; 21° 57' : 97° 47' 30"), faults in Plateau limestone. T. D. L., **M**, XXXIX, pt. 2, 83.
- Hweyawt, *N. Shan States* (93 B/15 ; 22° 29' 30" : 96° 58'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 91.
- Hyderabad, *Sind* (40 C/7 ; 25° 23' : 68° 23'), fuller's earth. W. T. B., **M**, XVII, 195.
- Hydergarh Basoda, *Gwalior* (55 I/2 ; 23° 37' : 78° 12'), siliceous limestone, Vindyan. H. H. H., **R**, XLIII, 25.
- Ib R., *Sambalpur* (64 O/13 ; 21° 49' : 83° 56'), coal seam. W. K., **R**, XXIV, 2 ; source of gold. J. M. M., **R**, XXXI, 84=Ebe and Eeb R.
- Ibrahimzai, *Kohat* (38 O/2 ; 33° 34' : 71° 9'), Nummulitic series, section. A. B. W., **R**, XII, 106.
- Ichadih, *Mambhum* (73 I/4 ; 23° 5' : 86° 10'), kyanite-muscovite-rock. J. A. D., **M**, LII, 213 (Pl. xx, fig. 4).



- Ichahatu, *Ranchi* (73 F/5; 22° 50' : 85° 30'), volcanic focus. J. A. D., **M**, LIV, 87.
- Ichahatu, *Singhbhum* (73 F/10; 22° 32' 30" : 85° 33' 30"), shales included in trap. J. A. D., **M**, LIV, 137.
- Ichakuti, *Singhbhum* (73 F/10; 22° 36' : 85° 36'), shales, Iron Ore series. J. A. D., **M**, LIV, 38.
- Ichau (Hichan), *Persia* (31 B/3; 26° 20' 30" : 60° 4'), L. Tertiary agglomerate. G. H. T., **R**, LIII, 64 (Pl. ix, fig. 2); Eocene beds. G. E. P., **M**, XLVIII, pt. 2, 74, 102.
- I-chiang-pu, *Yunnan* (101 C/11; 25° 27' : 100° 31'), Permo-Carboniferous tuffs and lava. J. C. B., **R**, LIV, 74.
- Idak, *Waziristan* (38 L/1; 32° 59' : 70° 13'), L. Eocene beds. F. H. S., **R**, XXVIII, 108.
- Idar, *Mahi Kantha* (46 E/1; 23° 51' : 73° 0'), granite monoliths. C. S. M., **M**, XLIV, 116.
- Idar Khel, *Waziristan* (38 L/5; 32° 56' 30" : 70° 17') L. Eocene beds. F. H. S., **R**, XXVIII, 108.
- Iddapadi, *Salem* (58 E/14; 11° 35' : 77° 50'), mica quarries. C. L. G., **R**, XXVIII, 88; T. H. H., **M**, XXXIV, 66.
- Iddayangudi, *Tinnevely* (58 H/15; 8° 19' : 77° 53'), sand dunes. R. B. F., **M**, XX, 90.
- Iddemkall (Idamakallu), *Kurnool* (57 I/15; 15° 17' : 78° 59' 30"), porphyritic syenite. W. K., **M**, VIII, 244.
- Iddurghur, *Cutch* (41 I/7; 23° 30' : 70° 23'), Jurassic fossils. A. B. W., **M**, IX, 128.
- Idindan Karai, *Tinnevely* (58 H/12; 8° 11' : 77° 44'), Cuddalore grits. R. B. F., **M**, XX, 42, 58 (fig.).
- Idlara (Yedulwada), *Adilabad* (56 M/7; 19° 19' 30" : 79° 19'), Maleri red clays. T. W. H. H., **R**, XI, 28; W. K., **R**, XIII, 23.
- Idubhavi (Aidbhavi), *Raichur* (56 D/11; 16° 19' : 76° 34'), pre-trappean gravels. R. B. F., **M**, XII, 169.
- Idupulapadu, *Guntur* (60 A/1; 15° 55' : 80° 12'), Rajmahal fossils. R. B. F., **M**, XVI, 74.
- Igatpuri, *Nasik* (47 E/10; 19° 42' : 73° 34'), trap flows. T. H. H., **R**, XXXII, 151.
- Iiadiguddu (Jajad Gudda), *Raichur* (57 A/5; 15° 46' : 76° 29'), hematite beds, Dharwar. R. B. F., **R**, XXII, 30=Jiadigudda.
- Ijara, *Kashmir* (43 J/4; 34° 10' 30" : 74° 14'), Salkhala series. D. N. W., **R**, LXV, 198.
- Ijri R., *Manbhum* (73 I/6; 23° 38' : 86° 26'), mica-peridotite, petrology. T. H. H., **R**, XXVII, 143; garnetiferous epidiorite. XXIX, 23.
- Ikrah, *Burdwan* (73 M/2; 23° 42' : 87° 7'), fault. R. R. S., **M**, XLI, 44.
- Ilavara, *Nellore* (57 M/15; 15° 22' 30" : 79° 50'), Rajmahal beds. R. B. F., **M**, XVI, 57.
- I-liang Hsien, *Yunnan* (101 P/1; 24° 55' : 103° 11'), Cambrian beds. J. C. B., **R**, XLIV, 99.
- Ilinsi, *Sibi* (39 C/12; 29° 2' : 68° 43'), freshwater shell beds. G. E. P., **R**, XXXVII, 142.

- Ilimi, *Naga Hills* (83 J/4;  $26^{\circ} 5' : 94^{\circ} 12'$ ), 'loop-fault'. H. H. H., **R**, XL, 293.
- Illatoor, *Chittoor* (57 O/12;  $13^{\circ} 15' : 79^{\circ} 41' 30''$ ), Cuddapah quartzite, outlier. R. B. F., **M**, X, 78.
- Ilpagoody (Huppajudi), *Trichinopoly* (58 I/16;  $11^{\circ} 9' : 78^{\circ} 59' 30''$ ), unconformity, Trichinopoly-Utatur stages. H. F. B., **M**, IV, 119 (fig.).
- I-men-Hsien, *Yunnan* (101 L/2;  $24^{\circ} 40' : 102^{\circ} 10'$ ), Cambrian beds (?). J. C. B., **R**, XLIV, 99=Yu-men Hsien.
- Imlia, *Sikapur* (63 E/3;  $27^{\circ} 19' : 81^{\circ} 8'$ ), geodetic station. R. D. O., **M**, XLII, 213.
- Imlikhera, *Chhindwara* (55 K/13;  $22^{\circ} 0' : 78^{\circ} 56' 30''$ ), syndline in Deccan trap. L. L. F., **R**, XLVII, 107.
- Imselwara (Imberzalwar), *Kashmir* (43 J/7;  $34^{\circ} 24' 30'' : 74^{\circ} 25'$ ), limestone. H. H. H., **R**, XXXVI, 36; L. Triassic age. C. S. M., **R**, XLV, 134.
- Inai, *N. Shan States* (93 F/9;  $22^{\circ} 56' : 97^{\circ} 40' 30''$ ), Carboniferous-Jurassic boundary. T. D. L., **M**, XXXIX, pt. 2, 345.
- Inamdoh, *Ladakh* (52 B/11;  $34^{\circ} 25' 30'' : 76^{\circ} 44'$ ), Tertiary-gneiss contact. R. L., **R**, XIII, 36.
- Inbekombi, *Coimbatore* (58 F/6;  $11^{\circ} 43' 30'' : 77^{\circ} 21' 30''$ ), reef-quartz. H. H. H., **M**, XXXIII, pt. 2, 55, 58.
- Inbingyi, *Yamethin* (93 D/3;  $20^{\circ} 21' : 96^{\circ} 9'$ ), fossil wood. E. H. P., **R**, LIX, 74.
- Indaki, *Afghanistan* (38 F/3;  $34^{\circ} 28' : 69^{\circ} 9'$ ), epidiorite and garnet-actinolite-schist. H. H. H., **M**, XXXIX, 17.
- Indargarh, *Kotah* (54 C/2;  $25^{\circ} 44' : 76^{\circ} 12'$ ), Vindhyan boundary fault. C. A. H., **R**, XIV, 289; A. M. H., **M**, XLV, 130; limestone in Jhiri shales. A. L. C., **R**, LX, 171.
- Indawas (Jodhawas), *Alwar* (54 A/7;  $27^{\circ} 21' 30'' : 76^{\circ} 18' 30''$ ), copper-ore. C. A. H., **R**, X, 91; XIII, 248=Judawas.
- Indawgyi, *Yamethin* (93 D/3;  $20^{\circ} 24' : 96^{\circ} 0'$ ), kaolin. E. H. P., **R**, LIX, 45; vertebrate fossils, 74.
- Inde, *L. Chindwin* (84 N/3;  $22^{\circ} 23' 30'' : 95^{\circ} 12'$ ), explosion crater. E. H. P., **R**, LXII, 105.
- Indin, *U. Chindwin* (84 I/4;  $23^{\circ} 1' 30'' : 94^{\circ} 4' 30''$ ), oil seepage. F. N., **M**, XXVII, 184; E. H. P., **M**, XL, 146.
- Indowra, *Saugor* (54 P/3;  $24^{\circ} 25' : 79^{\circ} 9' 30''$ ), Semri-granite boundary. H. B. M., **M**, II, 34.
- Indra, *Hazaribagh* (73 E/5;  $23^{\circ} 46' : 85^{\circ} 18' 30''$ ), coal seams. A. J., **M**, LII, 76.
- Indra Jurba, *Hazaribagh* (73 E/5;  $23^{\circ} 50' : 85^{\circ} 26'$ ), flagstone. T. W. H. H., **M**, VI, 108; hot spring. T. O., **M**, XIX, 139.
- Indrana, *Jodhpur* (45 C/6;  $25^{\circ} 40' : 72^{\circ} 16' 30''$ ), rhyolite-granite contact. T. D. L., **M**, XXXV, 63 (Pls. iii, fig. 2 & iv, fig. 3).
- Indura, *Saraikela* (73 F/6;  $22^{\circ} 42' : 85^{\circ} 28'$ ), *lit-par-lit* injection of granite. J. A. D., **M**, LIV, 109.
- Ingabu, *Henzada* (85 O/5;  $17^{\circ} 49' : 95^{\circ} 16'$ ), Pegu earthquake, 1930. J. C. B., **R**, LXV, 240.
- Ingleswara, *Bijapur* (56 D/2;  $16^{\circ} 39' : 76^{\circ} 1'$ ), manganese-ore. L. L. F., **M**, XXXVII, 640.

- Ingon, *Kyaukse* (93 C/2;  $21^{\circ} 32' : 96^{\circ} 11'$ ), dam-site. E. H. P., **R**, LVI, 26.
- Ingoort, *Nellore* (57 N/11;  $14^{\circ} 20' 30'' : 79^{\circ} 43'$ ), quartz-rock. W. K., **M**, XVI, 137=Inikurti.
- Ingri (Jungrai), *Peshawar* (38 O/14;  $33^{\circ} 44' 30'' : 71^{\circ} 59'$ ), flexure in Cretaceous limestone. C. L. G., **R**, XXV, 100.
- Ingsang, *N. Shan States* (93 B/14;  $22^{\circ} 36' : 96^{\circ} 57'$ ) Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 91.
- Ingyi, *Shwebo* (84 N/1;  $22^{\circ} 51' : 95^{\circ} 1'$ ), alluvial gold. E. H. P., **R**, LXIII, 36.
- Inikurti, *Nellore* (57 N/11;  $14^{\circ} 20' 30'' : 79^{\circ} 43'$ ), mica mine. T. H. H., **M**, XXXIV, 63, 83 (fig.)=Ingoort.
- Inkirti, *Warangal* (56 O/14;  $17^{\circ} 40' : 79^{\circ} 48'$ ), diorite dyko. R. B. F., **R**, XVIII, 29.
- Inle lake, *S. Shan States* (93 D/14;  $20^{\circ} 30' : 96^{\circ} 55'$ ), gastropod fauna. N. A., **R**, L, 215.
- Inlonggiri, *Nowgong* (83 G/5;  $25^{\circ} 48' : 93^{\circ} 17'$ ), Shale series, L. Siwalik, section. F. H. S., **M**, XXVIII, 86.
- Innaud, *S. Arcot* (58 I/9;  $11^{\circ} 52' 30'' : 78^{\circ} 43'$ ), iron-ore bed. W. K., **M**, IV, 294.
- Insein, *Burma* (94 D/1;  $16^{\circ} 53' : 96^{\circ} 7'$ ), manganiferous iron-ore. L. L. F., **M**, XXXVII, 669; Pegu earthquake, 1930. J. C. B., **R**, LXV, 226=Engsein.
- Inshin, *Kashmir* (43 O/9;  $33^{\circ} 49' : 75^{\circ} 34'$ ), Panjal slates. R. L., **R**, XI, 51; **M**, XXII, 228 (fig.).
- Intagaw, *Pegu* (94 C/8;  $17^{\circ} 11' : 96^{\circ} 23'$ ), reservoir site. E. H. P., **R**, LXII, 38; borings in alluvium, 118.
- Interview I., *Andaman* (86 D/9;  $12^{\circ} 53' : 92^{\circ} 42'$ ), foraminiferal limestone, Miocene. G. H. T., **M**, XXXV, 201, 203.
- Intosoro, *Rairakhol* (73 C/12;  $21^{\circ} 13' : 84^{\circ} 40'$ ), Mahadeva beds (?). V. B., **R**, X, 171.
- Inwun, *S. Shan States* (93 D/10;  $20^{\circ} 34' 30'' : 96^{\circ} 39'$ ), coal seams. C. S. M., **A. R.**, 1900, 145, 150.
- Inywayyi, *Magwe* (84 P/8;  $20^{\circ} 0' 30'' : 95^{\circ} 22'$ ), Burma earthquake, 1912, sounds. J. C. B., **M**, XLII, 113.
- Iplara hills, *Chitaldrug* (57 C/5;  $13^{\circ} 55' : 76^{\circ} 21'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1125.
- Ippatam, *Guntur* (65 D/11;  $16^{\circ} 26' : 80^{\circ} 37'$ ), Rajmahal or Cuddalore conglomerate. R. B. F., **M**, XVI, 80, 84.
- Irade, *S. Kanara* (48 P/2;  $12^{\circ} 40' 30'' : 75^{\circ} 10'$ ), hot spring. T. O., **M**, XIX, 149.
- Irai (Wirai), *Adilabad* (56 M/1;  $19^{\circ} 53' : 79^{\circ} 9'$ ), glaciated pavement. F. F. **R**, VIII, 17; T. W. H. H., **M**, XIII, 17.
- Irak, *Afghanistan* (38 B/1;  $34^{\circ} 50' : 68^{\circ} 2'$ ), fault. H. H. H., **M**, XXXIX, 54.
- Iria R., *Surghuja* (64 M/5;  $23^{\circ} 48' : 83^{\circ} 16'$ ), Gondwana beds, sections. C. L. G., **M**, XV, 171.
- Irkeshtan, *Russian Turkestan* (42 E/14;  $39^{\circ} 42' : 73^{\circ} 53'$ ), Ferghana series, fossils. H. H. H., **R**, XLV, 319.
- Irlaconda, *Kurnool* (56 L/12;  $16^{\circ} 3' : 78^{\circ} 37'$ ), Kistna quartzites. W. K., **M**, VIII, 255.
- Irlapudy, *Warangal* (65 C/7;  $17^{\circ} 20' : 80^{\circ} 16'$ ), crystalline limestone. R. B. F., **R**, XVIII, 18.

- Irli, *Balaghat* (64 C/5;  $21^{\circ} 53' : 80^{\circ} 21'$ ), bauxite. C. S. F., **M**, XLIX, 128.
- Iruku Kolla, *Sandur* (67 A/12;  $15^{\circ} 1' : 76^{\circ} 30'$ ), manganese-ore. L. I. F., **M**, XXXVII, 1003.
- Irur (Viruru), *Nellore* (57 M/8;  $15^{\circ} 4' : 79^{\circ} 21'$ ), mica-schists. R. B. F., **M**, XVI, 13.
- Isa Khel, *Mianwali* (38 P/6;  $32^{\circ} 41' : 71^{\circ} 17'$ ), coalfield. R. R. S., **R**, XXXI, 9 (Pls. i, ii); **M**, 111; oilfield. E. H. P., **M**, XL, 424.
- Isa Pallavarani, *Chingleput* (66 D/1;  $12^{\circ} 58' : 80^{\circ} 9'$ ), augite-diorite, petrology. T. H. H., **R**, XXX, 31.
- Isadara, *Kathiawar* (41 M/12;  $23^{\circ} 2' 30'' : 71^{\circ} 31'$ ), *Umia* plants. F. F., **M**, XXI, 83.
- Isanpur, *Patiala* (53 B/2;  $30^{\circ} 28' : 76^{\circ} 7'$ ), geodetic station. R. D. O., **M**, XLII 231.
- Isapur, *Chanda* (56 M/5;  $19^{\circ} 53' : 79^{\circ} 19'$ ), Kanthi plants. T. W. H. H., **M**, XIII, 69, 73.
- Isarda, *Jaipur* (54 B/4;  $26^{\circ} 9' : 76^{\circ} 1' 30''$ ), Aravalli granite. A. M. H., **R**, LIV, 352; garnetiferous schists, 357.
- Isarwas, *Tonk* (54 H/8;  $24^{\circ} 8' : 77^{\circ} 22'$ ), bauxitic laterite. T. H. H., **R**, XXXV, 57; C. S. F., **M**, XLIX, 102.
- Ishi pass, *Kashgar* (42 J/2;  $38^{\circ} 30' : 74^{\circ} 14'$ ), crystalline limestone. H. H. H., **R**, XLV, 316.
- Ishkaman, *Yasin* (42 H/14;  $36^{\circ} 32' : 73^{\circ} 51'$ ), calcareous slates. H. H. H., **R**, XLV, 295.
- Ishpul Baba, *Afghanistan* (38 F/6;  $34^{\circ} 34' : 69^{\circ} 27'$ ), metamorphic rocks. H. H. H., **M**, XXXIX, 44.
- Ishpushta, *Afghanistan* (38 A/3;  $35^{\circ} 20' : 68^{\circ} 4'$ ), Doab series to Cretaceous. H. H. H., **M**, XXXIX, 30, 34, 36, 63, 64 (fig. & Pls. v, xv).
- Ishtapali, *Sambalpur* (64 O/14;  $21^{\circ} 40' : 83^{\circ} 59'$ ), outlier of Talchirs. V. B., **R**, X, 173.
- Iskapilly, *Nellore* (57 M/8;  $15^{\circ} 0' : 79^{\circ} 19'$ ), sand dunes. R. B. F., **M**, XVI, 102.
- Isko, *Hazaribagh* (73 E/5;  $23^{\circ} 48' 30'' : 85^{\circ} 19' 30''$ ), Barakar-Ironstone shales, section. A. J., **M**, LII, 77.
- Islamabad, *Kashmir* (43 O/2;  $33^{\circ} 44' : 75^{\circ} 9'$ ), Triassic limestone. R. L., **R**, XI, 41; hot springs, sulphurous. T. O., **M**, XIX, 119; R. L., **M**, XXII, 43; section of Karewahs, 74; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 188.
- Islampur, *Patiala* (54 A/1;  $27^{\circ} 55' : 76^{\circ} 2'$ ), marble. P. N. B., **R**, XXXIII, 60.
- Ismail Khel, *Kohat* (38 O/7;  $33^{\circ} 20' : 71^{\circ} 17'$ ), Nummulitic series, section. A. B. W., **M**, XI, 192 (Pl. i, fig. 7).
- Isnai, *Adilabad* (56 N/13;  $18^{\circ} 56' 30'' : 79^{\circ} 49'$ ), Maleri red clays. W. K., **R**, XIII, 22.
- Ispaka, *Persia* (31 B/1;  $26^{\circ} 50' 30'' : 60^{\circ} 14'$ ), water-supply channel. G. H. T., **R**, LIII, 75.
- Isri, *Sirohi* (45 D/14;  $24^{\circ} 44' : 72^{\circ} 49'$ ), granite. E. H. P., **R**, LX, 114.
- Istalif, *Afghanistan* (38 F/1;  $34^{\circ} 50' : 69^{\circ} 4' 30''$ ), gneissose granite and mica-schist. H. H. H., **M**, XXXIX, 46.
- Istik, *Russian Turkestan* (42 K/5;  $37^{\circ} 46' : 74^{\circ} 26'$ ), Carboniferous limestone. H. H. H., **R**, XLV, 310.

- Isu Tibba, *Simla* (53 F/9; 30° 51' 30" : 77° 40' 30"), Deoban series. E. H. P., **R**, LXII, 166.
- Isvarganj, *Mymensingh* (78 L/10; 24° 41' : 90° 34'), earthquake, 1897, sand-vents. R. D. O., **M**, XXIX, 20, 102, 331.
- Itakerlapilli, *Vizagapatam* (65 N/12; 18° 14' 30" : 83° 37'), manganese-ore. L. L. F., **M**, XXXVII, 509, 1080.
- Itala, *Adilabad* (56 M/11; 19° 18' : 79° 34'), fish bed, Kota stage. W. K., **M**, XVIII, 282=Itial.
- Itala, *Banswara* (46 I/7; 23° 17' 30" : 74° 18' 30"), manganese-ore. L. L. F. **M**, XXXVII, 1157.
- Itarsi, *Hoshangabad* (55 F/14; 22° 36' 30" : 77° 47'), water-supply. H. H. H., **R**, XLIII, 22.
- Itgi, *Bijapur* (56 D/3; 16° 23' : 76° 0'), Infra-trappean breccia. R. B. F., **M**, XII, 167.
- Itial, *Adilabad* (56 M/11; 19° 18' : 79° 34'), fish bed, Kota stage. T. W. H. H., **R**, XI, 25; W. K., **R**, XIII, 17=Itala.
- Itigchalli, *Shimoga* (48 N/8; 14° 14' : 75° 25'), manganese-ore. L. L. F., **M**, XXXVII, 1133.
- Itkuri, *Hazaribagh* (72 H/3; 24° 18' : 85° 10'), coalfield. T. W. H. H., **M**, VIII, 321 (Pl. i); R. R. S., **M**, XLI, 58.
- Itvada, *Chota Udaipur* (46 F/15; 22° 27' 30" : 73° 46'), specular iron-ore. G. V. H., **R**, LIX, 354.
- Itwa, *Panna* (63 D/5; 24° 47' : 80° 23'), diamantiferous conglomerate. E. V., **R**, XXXIII, 275 (Pl. xxiii); laterite. C. S. F., **M**, XLIX, 107.
- Ivoli, *N. Kanara* (48 I/7; 15° 21' : 74° 21' 30"), manganese-ore. E. H. P., **R**, LXII, 58.
- Jaalan (Jebel), *Oman* (26 N/8; 22° 10' : 59° 17'), limestone, Oman series. G. E. P., **M**, XXXIV, pt. 4, 91, 94.
- Jaba, *Attock* (38 O/15; 33° 22' : 71° 56'), U. Siwalik beds. L. L. F., **R**, LXV, 121.
- Jaba, *Mianwali* (38 P/9; 32° 52' : 71° 40' 30"), oil seepages. A. B. W., **M**, XIV, 48, 264, 297 (Pl. xxx, fig. 52); N. D. D., **R**, XXXVIII, 257; E. H. P., **M**, XL, 431 (Pl. lxxxvii).
- Jaba, (Jabbiwala), *Punch* (43 K/6; 33° 45' : 74° 17' 30"), ash beds, Panjal trap. D. N. W., **M**, LI, 240; Nummulitic limestone, 304.
- Jaba, *Rawalpindi* (43 G/3; 33° 26' 30" : 73° 9'), Kamlial fossils. D. N. W., **M**, LI, 282, 340.
- Jabalpur, *Central Provs.* (55 M/16; 23° 10' : 79° 56'), Jabalpur series. H. B. M., **M**, X, 142; earthquake, 1897, sounds. R. D. O., **M**, XXIX, 193=Jubbulpore.
- Jaban, *Narukot* (46 F/11; 22° 26' : 73° 40'), manganised slate. L. L. F., **M**, XXXVII, 661.
- Jabar, *Punch* (43 K/1; 34° 0' : 74° 7'), trap escarpment. D. N. W., **M**, LI, 296.
- Jabboosh (Jhabua), *Bhopawar* (46 J/9; 22° 46' : 74° 35'), Bagh beds, outlier. H. B. M., **R**, I, 71.
- Jabi, *Attock* (38 O/16; 33° 6' : 71° 59' 30"), Siwalik mammalia. R. L., **R**, XII, 33; G. E. P., **R**, XLIII, 265.

- Jabi, *Shahpur* (43 D/3 ; 32° 23' : 72° 6'), Permo-Carboniferous ammonites. W. W., **M**, IX, 351 (Pl. iii) ; A. B. W., **M**, XIV, 68, 221.
- Jabl-us-Siraj, *Afghanistan* (38 E/8 ; 35° 7' : 69° 17'), hematite and dolomitic limestone. H. H. H., **M**, XXXIX, 46.
- Jabna, *Amjhera* (46 J/11 ; 22° 22' : 74° 45'), Cretaceous beds. H. B. M., **R**, VIII, 56, 57.
- Jabrian, *Hazara* (43 G/1 ; 33° 54' 30" : 73° 11'), Cretaceous fossils. G. C., **R**, LIX, 406=Jubriyan.
- Jackatalla, *Nilgiri* (58 A/15 ; 11° 22' 30" : 76° 46'), iron-ore. H. F. B., **M**, I, 219.
- Jaderi, *N. Arcot* (57 P/10 ; 12° 43' : 79° 33'), Rajmahal beds. R. B. F., **R**, XII, 202.
- Jadoh, *Khasi Hills* (78 O/7 ; 25° 27' 30" : 91° 21'), peridotite. R. W. P., **R**, LV, 156.
- Jafar, *Attock* (43 C/10 ; 33° 33' : 72° 32'), oil seepage (?). H. H. H., **R**, XLIV, 22 ; E. H. P., **M**, XL, 381.
- Jagalbet, *N. Kanara* (48 I/11 ; 15° 20' : 74° 31'), manganese-ore. E. H. P., **R**, LXII, 59.
- Jagannathpur, *Singhbhum* (73 F/12 ; 22° 13' : 85° 38'), unconformity, Iron-ore series-Dharwars. L. L. F., **R**, LIV, 41 ; L. A. N., **R**, LXV, 492.
- Jagas, *Sirmur* (53 F/5 ; 30° 52' : 77° 16'), Simla-Jaunsar series, section. G. E. P., **M**, LIII, 14 ; Jutogh thrust, 24.
- Jagatia, *Kathiawar* (41 L/13 ; 20° 53' : 70° 46'), natural gas. L. L. F., **R**, LIV, 26.
- Jagdah, *Gangpur* (73 B/15 ; 22° 15' 30" : 84° 54' 30"), limestone. E. H. P., **R**, LXII, 57.
- Jagdallak, *Afghanistan* (38 F/15 ; 34° 26' : 69° 46'), crystalline limestone, ruby mines. C. L. G., **R**, XXV, 70 ; H. H. H., **M**, XXXIX, 12 (fig.) ; Siwalik beds, 39, 42.
- Jaggayapet, *Kistna* (65 D/1 ; 16° 53' : 80° 5' 30"), supposed coal. H. B. M., **R**, XV, 207=Juggiappett.
- Jagraowa, *Rewah* (63 L/11 ; 24° 26' : 82° 32'), Bijawar diabase. E. V., **M**, XXXI, 80.
- Jagti, *Jammu* (43 L/13 ; 32° 48' 30" : 74° 54'), *Stegodon ganesa*. D. N. W., **R**, LVI, 352 (Pl. xxviii).
- Jaharo (Jhara), *Jaipur* (54 B/9 ; 26° 46' : 76° 38'), cold spring. A. M. H., **R**, XLVIII, 202.
- Jahazpur, *Mewar* (45 O/6 ; 25° 37' : 75° 17'), iron-ore. E. H. P., **R**, LIX, 45 ; quartzites and limestone. LX, 117.
- Jaidehpur, *Dacca* (78 L/8 ; 24° 0' : 90° 26'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 330.
- Jaif, *Iraq* (36° 1' : 43° 22'), sulphur spring. E. H. P., **R**, LI, 153 (Pl. vi) ; **M**, XLVIII, 35.
- Jainagar, *Burdwan* (73 M/1 ; 23° 46' : 87° 6'), coal seams. W. T. B., **M**, III, 50.
- Jainagar, *Hazaribagh* (73 E/6 ; 23° 39' : 85° 19'), coal seams. T. W. H. H., **M**, VII, 325 ; A. J., **M**, LII, 123 ; plants, Ironstone shales. O. F., **R**, XIV, 947.

- Jainthpura, *Jaipur* (45 M/14; 27° 39' : 75° 57'), Delhi granite, petrology. A. M. H., **R**, LIV, 380.
- Jainti, *Santal Parganas* (72 L/12; 24° 11' : 86° 41'), coalfield. T. W. H. H., **M**, VII, 249 (Pl. ii); **R**, R. S., **M**, XLI, 40.
- Jaintia, *Jalpaiguri* (78 F/10; 26° 42' : 89° 37'), lignite. H. H. H., **R**, XXX, 249; **R**, R. S., **M**, XLI, 37.
- Jaintiapur, *Sylhet* (83 C/4; 25° 8' : 92° 7'), earthquake, 1897. R. D. O., **M**, XXIX, 171; U. Tertiary beds. P. N. B., **A**, **R**, 1902, 26.
- Jaintpur, *Rewah* (64 E/11; 23° 28' 30" : 81° 44'), coal seam. T. W. H. H., **M**, XXI, 190, 240.
- Jaipur, *Lakhimpur* (83 M/7; 27° 16' : 95° 24'), coalfield. H. B. M., **M**, IV, 397, 400; F. R. M., **M**, XII, 314 (Pl. ii); **R**, R. S., **R**, XXXIV, 201 (Pls. xxiv, xxv & xxix); **M**, XLI, 18; oil seepages. E. H. P., **M**, XL, 235, 292; Cachar earthquake, 1869. T. O., **M**, XIX, 27.
- Jaipur, Orissa, *see* Jeypore.
- Jaipur, *Rajputana* (45 N/13; 26° 56' : 75° 49'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 66, 71; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 233; mica. T. H. H., **M**, XXXIV, 70; syncline, Alwar series. A. M. H., **R**, LIV, 362.
- Jaipur Hat, *Bogra* (78 G/4; 25° 6' : 89° 0'), 'Barisal guns'. R. D. O., **M**, XXIX, 206.
- Jairasi, *Balaghat* (64 B/16; 22° 4' : 80° 49'), mangano-se-ore. L. L. F., **M**, XXXVII, 732.
- Jaisalmer, *Rajputana* (40 J/13; 26° 55' : 70° 55'), marble. T. H. H., **R**, XXXIX, 258; Cutch earthquake, 1819. R. D. O., **M**, XLVI, 112=Jesalmir.
- Jaithgarh, *Nagpur* (55 K/15; 21° 29' : 78° 52'), metamorphic rocks. P. N. D., **R**, XXXIII, 221, 223; Lameta beds, 224.
- Jaitpur, *Chhindwara* (55 K/13; 21° 57' : 78° 56'), syncline in Deccan trap. L. L. F., **R**, XLVII, 108; fault, 119 (Pl. xv, fig. 2).
- Jajawal, *Surguja* (64 M/2; 23° 32' : 83° 2'), slates, ? Vindhyan. C. L. G., **M**, XV, 140.
- Jajh deh Kot Lalu, *Khairpur* (40 B/6; 26° 41' : 68° 19'), meteorite. G. V. H., **R**, LX, 150 (Pl. xi).
- Jajkul Gudda, *Bellary* (57 B/1; 14° 51' : 76° 3'), goldfield. R. B. F., **M**, XXV, 196; J. M. M., **R**, XXXIV, 119.
- Jak, *Naini Tal* (53 O/7; 29° 26' : 79° 27'), alum shales. A. W. L., **R**, IV, 21.
- Jukao, *Cutch* (41 A/12; 23° 13' : 68° 43'), Gaj series, mollusca. E. V., **M**, L, 12, 23, 51, etc.
- Jakhama (Zhakama), *Naga Hills* (83 K/2; 25° 35' : 94° 8'), high-level gravels. R. D. O., **M**, XIX, 232 (Pl. iv, fig. 1).
- Jakhmari, *Karachi* (35 N/16; 26° 10' : 67° 53'), L. Ranikot beds, section. W. T. B., **M**, XVII, 129 (Pl. v, fig. 1); gastropoda. E. V., **R**, LIV, 256; LV, 68.
- Jakiwara, *Chhindwara* (55 K/14; 21° 37' : 78° 46'), Lameta limestone. P. N. D., **R**, XXXIII, 225.
- Jakra, *Alwar* (54 A/16; 27° 14' : 76° 47'), hornstone breccia. A. M. H., **M**, XLV, 67.
- Jala, *Palamau* (73 A/13; 23° 49' 30" : 84° 52'), Barakar-Raniganj stages, sections. A. J., **M**, LII, 47.

- Jalalabad, *Afghanistan* (38 J/7; 34° 26' : 70° 28'), garnetiferous gneiss and talus fans. C. L. G., **R**, XXV, 72; earthquake, 1842. F. M. B., **M**, XXXV, 155; wind-sculptured pebbles. H. H. H., **M**, XXXIX, 40=Jellalabad.
- Jalalpur, *Jhelum* (43 H/6; 32° 39' 30" : 73° 24' 30"), Siwalik fossils. A. B. W., **R**, X, 120; faults. **M**, XIV, 54.
- Jalandar, *Cutch* (41 M/11; 23° 19' : 71° 38'), hot spring. T. O., **M**, XIX, 110.
- Jalapur, *Saran* (72 B/8; 26° 4' : 84° 22'), geodetic station. R. D. O., **M**, XLII, 220.
- Jalar, *Shahpur* (43 D/3; 32° 29' 30" : 72° 5' 30"), Carboniferous-Tertiary, section. A. B. W., **M**, XIV, 224; lake. T. D. L., **R**, XL, 47 (Pl. ix).
- Jalarpet, *N. Arcot* (57 L/10; 12° 34' : 78° 35'), granite and gneiss. E. H. P., **R**, LVIII, 59; LXIII, 124.
- Jalasar, *Singhbhum* (73 F/1; 22° 47' 30" : 85° 10'), tourmaline-mica-schist. J. A. D., **M**, LIV, 57.
- Jalawar, *Kalat* (34 D/14; 28° 31' : 64° 50'), nummulitic limestone. E. V., **A. R.**, 1901, 33.
- Jalda, *Singhbhum* (73 F/10; 22° 34' : 85° 41'), dykes, Ongabira trap. J. A. D., **M**, LIV, 137.
- Jalda, *Vizagapatam* (65 J/16; 18° 7' 30" : 82° 54'), sapphirine. H. C., **R**, LXIII, 446.
- Jaldrug, *Raichur* (56 D/7; 16° 15' : 76° 25'), falls, Kistna R. R. B. F., **M**, XII, 10; red porphyritic gneiss, 45, 257.
- Jalgaranhalli, *Hassan* (57 C/8; 13° 12' : 76° 22'), old workings for gold. R. B. F., **R**, XXI, 18.
- Jalia, *Idar* (46 E/5; 23° 50' : 73° 18'), Phyllite series. C. S. M., **M**, XLIV, 92.
- Jalk, *Persia* (31 I/10; 27° 36' 30" : 62° 42' 30"), Zindan series, Eocene. G. E. P., **M**, XLVIII, pt. 2, 75; foraminifera. G. H. T., **R**, LIII, 65.
- Jalna, *Aurangabad* (47 M/13; 19° 50' : 75° 53'), Deccan trap. W. T. B., **R**, I, 62.
- Jalor, *Jodhpur* (45 C/11; 25° 21' : 72° 37'), granite. T. D. L., **A. R.**, 1898, 37; **M**, XXXV, 24, 71.
- Jalori pass, *Kulu* (53 E/6; 31° 32' 30" : 77° 23'), graphitic schist. H. B. M., **M**, III, pt. 2, 57; C. A. M., **R**, XII, 65.
- Jalpaiguri, *Bengal* (78 B/10; 26° 31' : 88° 43'), Cachar earthquake, 1869. T. O., **M**, XIX, 30; earthquake, 1897. H. H. H., **M**, XXIX, 281; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 268.
- Jam, *Balaghat* (55 O/13; 21° 45' 30" : 79° 52' 30"), manganese-ore. L. L. F., **M**, XXXVII, 503, 706 (fig.).
- Jam Ghat, *Indore* (46 N/11; 22° 21' : 75° 44'), Deccan trap flows. W. T. B., **M**, VI, 293 (fig.); ash beds. P. N. B., **M**, XXI, 52.
- Jam Joor, *Mambhum* (73 I/6; 23° 41' : 86° 24' 30"), Barakar stage, section. T. W. H. H., **M**, V, 306.
- Jamai, *Chhindwara* (55 J/12; 22° 12' : 78° 35'), colliery. H. H. H., **R**, LII, 54.
- Jamal Bariz range, *Persia* (24 L/N. W.; 28° 38' : 58° 15'), volcanic series, U. Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 67.
- Jamalpur, *Monghyr* (72 K/7; 25° 19' : 86° 29'). earthquake, 1897. E. V., **M**, XXIX, 305 (figs.).



- Jamulpur, *Mymensingh* (78 H/13; 24° 55': 89° 57'), Bengal earthquake, 1885. C. S. M., **R**, XVIII, 204; earthquake, 1897, fissures. R. D. O., **M**, XXIX, 331; Srimangal earthquake, 1918. M. S., **M**, XLVI, 28.
- Jamulpur, 24 *Parganas* (79 B/10; 22° 38': 88° 41' 30"), vivianite. E. V., **R**, XXXI, 174.
- Jambal Ghat, *Chanda* (55 P/6; 20° 33': 79° 27' 30"), potstone. L. L. F., **R**, L, 296.
- Jambaldinni, *Bijapur* (56 D/3; 16° 23': 76° 14'), millstones. R. B. F., **M**, XII, 140.
- Jambhugoda, *Narukot* (46 F/11; 22° 22': 73° 44'), mica. T. H. F., **M**, XXXIV, 53; manganese-ore. L. L. F., **M**, XXXVII, 646 (Pl. xvii, fig. 1)=Jumbooghora.
- Jambirabera, *Ranchi* (73 F/9; 22° 49' 30": 85° 32' 30"), garnet-carbon-phyllite. J. A. D., **M**, LIV, 51 (Pl. x, fig. 3).
- Jambonath Konda, *Sandur* (57 A/8; 15° 13': 76° 26'), Dharwar beds, section. R. B. F., **M**, XXV, 108; travertine, 188.
- Jamboti, *Belgaum* (48 I/6; 15° 41': 74° 22'), laterite. R. B. F., **M**, XII, 204, C. S. F., **M**, XLIX, 64.
- Jamda, *Singbhum* (73 F/8; 22° 10' 30": 85° 26'), cavern in laterite. E. H. P., **R**, LX, 75.
- Jamdihi Nala, *Nimar* (55 B/15; 22° 16': 76° 45'), mangiferous breccia. L. L. F., **M**, XXXVII, 977.
- Jamchari, *Burdwan* (73 M/2; 23° 39': 87° 4'), coal seam. R. R. S., **M**, XLI, 46 =Jemeri.
- Jamgaon, *Belgaum* (48 I/6; 15° 33': 74° 23' 30"), manganese-ore. E. H. P., **R**, LXII, 59.
- Jamgaon, *Bhandara* (55 O/12; 21° 1': 79° 37' 30"), tourmaline-garnet granite. S. K. C., **R**, LXV, 294.
- Jamgodia (Jaugaria), *Mayurbhanj* (73 J/12; 22° 5' 30": 86° 31' 30"), mica. P. N. B., **R**, XXXI, 171.
- Jamgram, *Burdwan* (73 M/1; 23° 48' 30": 87° 1'), basal beds, Barakar stage. E. H. P., **R**, LXII, 141.
- Jamgula, *Surguja* (64 I/16; 23° 0' 30": 82° 58' 30"), Talchir sandstones. V. B., **R**, XV, 110.
- Jami Gali, *Punch* (43 K/5; 33° 59': 74° 16'), Gondwana scarp. D. N. W., **M**, LI, 300.
- Jamiari (Jemari), *Burdwan* (73 I/13; 23° 47' 30": 86° 53'), Talchir beds, section. W. T. B., **M**, III, 35 (fig.).
- Jamjura, *Saraikela* (73 J/2; 22° 43' 30": 86° 8'), copper-ore. E. S., **R**, III, 92 assay. V. B., **R**, III, 96.
- Jamkhair, *Ahmadnagar* (47 N/6; 18° 44': 75° 19'), meteorite. L. L. F., **R**, XXXV, 95; J. C. B., **M**, XLIII, 210.
- Jamkhandij, *S. Mahhatta Jagirs* (47 P/6; 16° 30': 75° 17'), L. Kaladgi beds, section. R. B. F., **M**, XII, 86.
- Jamkoondih, *Santal Parganas* (72 P/10; 24° 40': 87° 34'), Rajmahal plants. O. F., **R**, IX, 39.
- Jamla, *Chota Udaipur* (46 J/3; 22° 21': 74° 2'), marble. G. V. H., **R**, LIX, 355.

- Jamla, *Idar* (46 A/14; 23° 41' : 73° 0'), Delhi quartzite. C. S. M., **M**, XLIV, 85; granophyre, 124; quartz-porphyry, 126; 'kankar', 145.
- Jamlog, *Patiala* (53 E/4; 31° 8' 30" : 77° 1' 30"), Chail overthrust, section. G. E. P., **M**, LIII, 97.
- Jammapur, *Chitaldrug* (57 B/7; 14° 28' : 76° 22'), hematite-quartzite with manganese-ore. L. L. F., **M**, XXXVII, 1121.
- Jammu, *Kashmir* (43 L/14; 32° 44' : 74° 52'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 171.
- Jamnagar, *Kathiawar* (41 J/3; 22° 28' 30" : 70° 4'), boring for water. E. H. P., **R**, LIX, 61; LX, 56.
- Jamnia Bagh, *Garhwal* (53 J/4; 30° 0' : 78° 15'), warm spring. R. D. O., **R**, XVII, 167.
- Jamrapani, *Balaghat* (55 O/10; 21° 40' : 79° 43' 30"), martite. L. L. F., **M**, XXXVII, 216; manganese-ore, 436, 459, 703.
- Jamroli, *Alwar* (54 A/12; 27° 9' : 76° 40'), Alwar series, thickness. A. M. H., **M**, XLV, 33; Ajabgarh slates, 83; barytes. Sri Kumar Roy, **R**, LIV, 238.
- Jamrud, *Peshawar* (38 N/8; 34° 0' 30" : 71° 23'), Carboniferous (?) fossils. C. L. G., **R**, XXV, 89.
- Jamsar, *Bikaner* (44 H/7; 28° 15' 30" : 73° 22' 30"), gypsum. E. H. P., **R**, LVII, 362.
- Jaushedpur, *Singhbhum* (13 J/1; 22° 48' : 86° 12'), Tata Iron Works. L. L. F., **R**, XLVI, 106 (Pl. v); H. H. H., **R**, LII, 113; apatite. E. H. P., **R**, LXIII, 28.
- Jamsol, *Burdwan* (73 M/2; 23° 43' : 87° 9'), Ironstone shales. E. H. P., **R**, LXII, 138.
- Jamtai, *Singhbhum* (73 F/6; 22° 44' : 85° 15' 30"), tuff. J. A. D., **M**, LIV, 65 (Pl. xiv, fig. 1); volcanic focus, 87.
- Jamtara, *Hazaribagh* (72 H/10; 24° 34' 30" : 85° 40' 30"), quartz for furnace building. T. W. H. H., **R**, VII, 28; mica. F. R. M., **R**, VII, 42.
- Jamua, *Rewah* (64 E/7; 23° 17' 30" : 81° 24'), coal seam. T. W. H. H., **M**, XXI, 240.
- Jamuan (Jemua), *Bankura* (73 M/2; 23° 33' 30" : 87° 5'), limestone. V. B., **R**, X, 152.
- Jamundhonga, *Chhindwara* (55 J/11; 22° 23' : 78° 32'), dolerite sill. L. L. F., **R**, LXV, 97.
- Jamunia R., *Mambhum* (73 I/2; 23° 44' : 86° 11'), coal seams. R. R. S., **M**, XLI, 51=Jummoonee R.
- Janakmukh, *Abor Hills* (82 P/8; 28° 7' : 95° 17'), lignite. J. C. B., **R**, XLII, 236, 252.
- Janal Haruvu, *Sandur* (57 B/9; 14° 59' : 76° 38'), manganese-ore. L. L. F., **M**, XXXVII, 1003, 1028.
- Janali, *Idar* (46 E/6; 23° 39' 30" : 73° 15' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 88; Phyllite series, 112.
- Jananpet, *Kistna* (65 H/1; 16° 46' 30" : 81° 3'), building stone. W. K., **M**, XVI, 253.
- Janari, *Rewah* (64 E/15; 23° 24' : 81° 47'), coal seam. T. W. H. H., **M**, XXI, 240.
- Jand, *Attock* (43 C/3; 33° 25' 30" : 72° 1'), 'erratics'. A. B. W., **R**, X, 124; W. T., **R**, X, 141; XIII, 224, 228 (Pl. ix fig. 2)=Jhand.

- Janda Bagla, *Punch* (43 G/10; 33° 41' : 73° 44'), travertine. D. N. W., **M**, LI, 366.
- Jandi pass, *Almora* (62 B/2; 30° 39' : 80° 10'), Halorites beds. C. D., **M**, XXXVI, 306.
- Jandola, *Waziristan* (38 L/3; 32° 20' : 70° 7'), Siwalik conglomerates. M. S., **R**, LIV, 92, 94.
- Jandot (Jharot), *Simla* (53 E/8; 31° 7' 30" : 77° 20' 30"), Blaini limestone. E. H. P., **R**, LX, 23.
- Jangaon, *Adilabad* (56 M/7; 19° 21' : 79° 18'), Maleri red clays. W. K., **R**, XIII, 22.
- Jangi, *Bashahr* (53 I/6; 31° 36' : 78° 26'), biotite-granite. C. A. M., **R**, X, 221, XII, 57; petrology. XVII, 55, 68; inclusions of mica-schist, 169; H. H. H., **M**, XXXVI, 97.
- Jangi Buru, *Singhbhum* (73 F/16; 22° 14' : 85° 58'), grano-dolerite. L. A. N., **R**, LXV, 526 (Pl. xxviii, fig. 3); analysis, 529.
- Jangipur, *Murshidabad* (78 D/3; 24° 28' : 88° 4'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Jangla Pani, *Lakhimpur* (83 M/11; 27° 19' : 95° 33'), alluvial gold. J. M. M., **R**, XXXI, 217.
- Jangti R., *Jalpaiguri* (78 F/10; 26° 39' : 89° 41'), Tertiary passage beds, section. F. R. M., **M**, XI, 49.
- Janjal, *Waziristan* (38 H/14; 32° 35' : 69° 56' 30"), plant beds. M. S., **R**, LIV, 90.
- Janjghir, *Raigarh* (64 N/12; 22° 7' : 83° 33' 30"), coal seam. V. B., **R**, VIII, 112.
- Janji R., *Naga Hills* (83 J/10; 26° 40' : 94° 39'), coalfield. F. R. M., **M**, XII, 343 (Pl. iii); R. R. S., **M**, XLI, 20.
- Janjura (Jhanjra), *Burdwan* (73 M/6; 23° 38' 30" : 87° 17' 30"), coal seam reported. W. T. B., **M**, III, 79.
- Janor (Jarnol), *Cutch* (41 A/11; 23° 25' : 68° 35' 30"), Eocene fossils. A. B. W., **M**, IX, 251.
- Janumbera, *Singhbhum* (73 F/14; 22° 42' 30" : 85° 49'), felspathic sandstone, Iron Ore series. J. A. D., **M**, LIV, 38.
- Jaokul, *Afghanistan* (38 B/7; 34° 28' : 68° 17'), chialstolite slate. H. H. H., **M**, XXXIX, 25; marble, 72.
- Jaori (Zoori), *Bashahr* (53 E/14; 31° 32' : 77° 47'), hot springs. T. O., **M**, XIX, 122.
- Japla, *Palamau* (72 D/2; 24° 32' : 84° 0' 30"), cement works. L. L. F., **R**, LIII, 254; H. C. J., **R**, LVII, 340=Jupla.
- Japut, *Ranchi* (73 F/1; 22° 50' : 85° 7'), inclusions of hornblende-schist in granite. L. A. N., **R**, LXV, 494.
- Jaradag, *Shahabad* (63 P/10; 24° 32' : 83° 33'), L. Vindhyan shale and limestone. F. R. M., **M**, VII, 38, 39.
- Jarag, *Sirmur* (53 F/5; 30° 50' : 77° 22'), marble, Jutogh series. G. E. P., **M**, LIII, 80 (fig.).
- Jarnakela, *Singhbhum* (73 F/3; 22° 18' 30" : 85° 7'), Cuddapah beds. J. M. M., **R**, XXXI, 73.
- Jarsain, *Jaintia Hills* (83 C/3; 25° 19' : 92° 8'), coal seam. T. D. L., **R**, XVI, 199; R. R. S., **M**, XLI, 29.
- Jarandih, *Hazaribagh* (73 E/13; 23° 46' : 85° 54' 30"), coal area. J. C. B., **R**, LVII, 53.

- Jaraunda, *Korea* (64 J/1 ; 22° 57' : 82° 15'), Talchir limestone. L. L. F., **M**, XLI, 167.
- Jargal Gumbaz, *Kashgar* (42 O/6 ; 37° 31' : 75° 23'), metamorphic rocks. H. H. H., **R**, XLV, 305.
- Jarida (Jereida), *Singhbhum* (73 F/7 ; 22° 15' 30" : 85° 24'), iron-ore. H. C. J., **R**, LIV, 210.
- Jarkarua, *Mirzapur* (63 L/14 ; 24° 30' : 82° 49'), Bijawar melaphyre. E. V., **M**, XXXI, 87.
- Jarkandi, *Singhbhum* (73 F/1 ; 22° 46' 30" : 85° 10' 30"), pseudo-pebbles in mica-schist. J. A. D., **M**, LIV, 55.
- Jarola, *Chhindwara* (55 K/14 ; 21° 39' : 78° 51'), hornblende-biotite-gneiss, petrology. L. L. F., **R**, XXXIII, 180.
- Jarra, *Cutch* (41 E/2 ; 23° 43' : 69° 1'), Jurassic beds, scarp. A. B. W., **M**, IX, 222 (fig.).
- Jarra, *Rewah* (64 I/3 ; 23° 24' : 82° 1'), coal seams. T. W. H. H., **M**, XXI, 240.
- Jarum, *Palamau* (73 A/9 ; 23° 49' 30" : 84° 30'), hot spring. V. B., **M**, XV, 19 ; T. O., **M**, XIX, 138.
- Jarura, *Kheri* (63 A/5 ; 28° 0' : 80° 28'), geodetic station. R. D. O., **M**, XLII, 213.
- Jasaidih, *Burdwan* (73 J/14 ; 23° 42' 30" : 86° 50'), coal seam. R. R. S., **M**, XLI, 45.
- Jasaor, *Chamba* (52 D/1 ; 32° 46' : 76° 10' 30"), crinoid limestone. R. L., **R**, XIV, 39.
- Jasat (Gishat), *Kashmir* (43 J/14 ; 34° 44' : 74° 59'), contortions in Carboniferous beds. R. L., **R**, XIV, 4.
- Jashk, *Persia* (25 G/14 ; 25° 44' 30" : 57° 46'), Makran series. W. T. B., **R**, V, 43 ; mollusca. E. V., **M**, L, 450, 456, 458.
- Jasidih, *Santal Parganas* (72 L/10 ; 24° 31' : 86° 39'), tremolite. A. L. C., **R**, LXIII, 444.
- Jasol, *Jodhpur* (45 C/1 ; 25° 49' : 72° 13'), olivine-dolerite dykes. T. D. L., **M**, XXXV, 51.
- Jasounda, *Saugor* (54 L/15 ; 24° 20' : 78° 58'), crystalline rocks. H. B. M., **M**, II, 40.
- Jaspur, *Saraikela* (73 J/1 ; 22° 47' : 86° 4' 30"), kaolin. E. H. P., **R**, LVI, 30.
- Jasrapura, *Jaipur* (44 P/12 ; 28° 1' 30" : 75° 43'), flagstone quarries. A. M. H., **R**, LIV, 392.
- Jassian, *Attock* (43 C/6 ; 33° 45' : 72° 23'), 'erratics'. G. C., **R**, LXI, 332.
- Jastipalli (Jestaipilli), *Warungal* (65 C/7 ; 17° 24' : 80° 16'), hornblende-rock. R. B. F., **R**, XVIII, 15.
- Jatachapar, *Chhindwara* (55 J/12 ; 22° 13' : 78° 43'), colliery. L. L. F., **R**, XLVI, 56.
- Jatal, *Rawalpindi* (43 G/3 ; 33° 18' : 73° 8'), M. Siwalik fossils. D. N. W., **M**, LI, 343.
- Jate, *Ranchi* (73 F/5 ; 22° 55' 30" : 85° 16'), epidosite. J. A. D., **M**, LIV, 93 ; granite-schist boundary, 118.
- Jate, *Singhbhum* (73 F/6 ; 22° 39' 30" : 85° 19'), folding in Iron Ore series. J. A. D., **M**, LIV, 22, 79.
- Jatiba, *Ranchi* (73 F/1 ; 22° 46' : 85° 3'), pleochroic halo in biotite. L. A. N., **R**, LXV, 500 (Pl. xxv, fig. 3).

- Jatni, *Puri* (73 H/12; 20° 9': 85° 42' 30"), manganiferous khondalite. L. L. F., **M**, XXXVII, 242, 618.
- Jatogh hill, *Simla* (53 E/4; 31° 6': 77° 7'), structure. H. B. M., **M**, III, pt. 2, 35 =Jutogh hill.
- Jatrapur, *Rangpur* (78 G/9; 25° 50': 89° 43'), earthquake, 1897, fissures. T. D. L., **M**, XXIX, 259.
- Jatta, *Kohat* (38 O/7; 33° 20': 71° 17'), Nummulitic series. A. B. W., **M**, XI, 230 (Pl. vi, fig. 31); rock-salt. H. W., **M**, XI, 300, 305; M. S., **R**, L, 31; E. H. P., **M**, XL, 417; Saline series, horizon. C. S. F., **R**, LXXI, 164; gypsum zone. L. L. F., **R**, LXV, 113.
- Jatwara, *Jaipur* (54 B/1; 26° 52': 76° 12'), Gwalior beds, section. A. M. H., **M**, XLV, 142.
- Jauli, *Jubbulpore* (64 A/3; 23° 23' 30": 80° 14'), hematite. F. R. M., **R**, XVI, 99; analysis. L. L. F., **M**, XXXVII, 596, 810; **R**, L, 288; mineral paint, 295=Joulco.
- Jaulikera (Javulagiri), *Salem* (57 H/10; 12° 31': 77° 38' 30"), augite-diorite, petrology. T. H. H., **R**, XXX, 33.
- Jaunpur, *United Provs.* (63 K/9; 25° 45': 82° 41'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 114.
- Jauza hill, *Afghanistan* (29 J/11; 34° 24': 62° 44'), igneous rocks, Red grit series. C. L. G., **R**, XIX, 54.
- Javanhalli (Javagondanhalli), *Chitaldrug* (57 C/9; 13° 50': 76° 45'), Dharwar schists. L. L. F., **M**, XXXVII, 1120.
- Jawad, *Mandasor* (45 L/14; 24° 36': 74° 52'), L. Vindhyan limestone. C. A. H., **R**, XIV, 292; H. H. H., **R**, XLIV, 29.
- Jawai, *Jaintia Hills* (83 C/3; 25° 26': 92° 12'), Cretaceous beds. T. D. L., **R**, XVI, 199=Jowai.
- Jawal, *Mewar* (45 K/15; 25° 22': 74° 59'), Delhi-Aravalli unconformity. C. A. H., **R**, XIV, 295.
- Jawalumukhi, *Kangra* (53 A/5; 31° 52': 76° 19'), gas and brine springs. E. H. P., **M**, XL, 441; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 40 (Pl. xi, fig. 2)=Jualumukhi.
- Jawāli, *Kangra* (52 D/4; 32° 8': 76° 1'), former glacier. W. T., **R**, VII, 90.
- Jawar, *Mewar* (45 H/11; 24° 21': 73° 41'), zinc mines. C. A. H., **R**, XIII, 248; E. H. P., **R**, LXIII, 79.
- Jaz Morian, *Persia* (25 I/15; 27° 20': 58° 55'), salt marsh. G. H. T., **R**, LIII, 52.
- Jebri, *Kalat* (35 E/11; 27° 18': 65° 44'), Jurassic anticline. E. V., **R**, XXXVIII, 193; volcanic rocks, 197.
- Jein Pir, *Karachi* (40 C/4; 25° 0' 30": 68° 1'), hot spring. T. O., **M**, XIX, 111 =Jhimpir.
- Jellalabad, *Afghanistan* (38 J/7; 34° 25': 70° 28'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 249=Jalalabad.
- Jellinghi, *Murshidabad* (78 D/12; 24° 9': 88° 42'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 328.
- Jelounda, *Hoshangabad* (55 F/2; 22° 31' 30": 77° 6'), inclusions of quartzite in granite. J. G. M., **M**, II, 125.
- Jemadar Hat, *Goalpara* (78 J/4; 26° 3': 90° 7' 30"), earthquake, 1897. R. D. O., **M**, XXIX, 15.

- Jemeri, *Burdwan* (73 M/2; 23° 39' : 87° 4'), coal seam. W. T. B., **M**, III, 100 =Jamehari.
- Jennel Gudda (Jonnalgadda), *Kistna* (65 D/5; 16° 51' 30" : 80° 19'), Cuddapah beds. R. B. F., **R**, XVIII, 21.
- Jeoria, *Mewar* (45 O/3; 25° 26' : 75° 3'), steatite. E. H. P., **R**, LIX, 52.
- Jerakel (E), *Singhbhum* (73 F/5; 22° 45' 30" : 85° 20'), ochre. J. A. D., **M**, LIV, 165.
- Jerakel (W), *Singhbhum* (73 F/2; 22° 41' 30" : 85° 15'), phyllite, Iron Ore series. J. A. D., **M**, LIV, 79.
- Jereedeh (Jaridih), *Hazaribagh* (73 E/13; 23° 46' : 85° 56'), injection of coal by trap. T. W. H. H., **M**, VI, 64.
- Jergo (Saya Kyun), *Kyaukpyu* (85 F/13; 18° 49' : 93° 57'), mud vents. E. H. P., **M**, XL, 196.
- Jerruck, *Karachi* (40 C/8; 25° 3' : 68° 15' 30"), U. Ranikot beds, section. W. L. F. N., **R**, LXV, 312=Jhirak.
- Jerruk Dhooi, *Cutch* (41 E/5; 23° 54' : 69° 18'). A. B. W., **M**, IX, 45=Charakra Doi.
- Jerwapani, *Santal Parganas* (72 P/7; 24° 26' : 87° 28'), hot springs. T. O., **M**, XIX, 141.
- Jesai, *Jodhpur* (40 O/2; 25° 42' 30" : 71° 14'), granite. T. D. L., **M**, XXXV, 76 =Jessai.
- Jesalmir, *Rajputana* (40 J/13; 26° 55' : 70° 55'), Jurassic limestone. W. T. B., **R**, X, 15; R. D. O., **R**, XLIX, 158=Jaisalmer.
- Jesangpur, *Idar* (46 E/6; 23° 43' 30" : 73° 19'), gneissose granite. C. S. M., **M**, XLIV, 65; crystalline limestone, 66.
- Jeshtar, *Tehri* (53 J/1; 30° 51' : 78° 11'), quartzites and schistose slates. C. S. M., **R**, XX, 31.
- Je-shui-tang, *Yunnan* (92 L/5; 24° 55' : 98° 23'), hot springs. J. C. B., **R**, XLIII, 175, 205; basalt lava, petrology. R. C. B., **R**, XLIII, 210 (Pl. xviii, fig. 2).
- Jespore, *Rajpipla* (46 G/6; 21° 41' : 73° 18'), chalcedony veins in trap. P. N. B., **R**, XXXVII, 173.
- Jessai, *Jodhpur* (40 O/2; 25° 42' 30" : 71° 14'), granite, petrology. C. A. M., **R**, XIX, 163=Jessai.
- Jessore, *Bengal* (79 E/4; 23° 10' : 89° 13'), earthquake, 1897. P. N. B., **M**, XXIX, 315; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 261.
- Jetpur, *Chota Udaipur* (46 F/15; 22° 20' 30" : 73° 50' 30"), reservoir. G. V. H., **R**, LIX, 356.
- Jevra, *Rawalpindi* (43 G/10; 33° 36' 30" : 73° 31'), Himalayan syntaxis. D. N. W., **M**, LI, 359.
- Jeypore, *Orissa* (65 J/9; 18° 51' : 82° 34'), diabase. T. L. W., **A. R.**, 1900, 173.
- Jhadwan, *Cutch* (41 A/10; 23° 30' 30" : 68° 36' 30"), *Discocyclina*. W. L. F. N., **R**, LIX, 148, 150.
- Jhagraha, *Rewah* (64 E/12; 23° 12' : 81° 35'), coal seam, section. G. F. R., **A. R.**, 1900, 71.
- Jhagrakhand, *Korea* (64 I/4; 23° 11' : 82° 12'), coal area. T. W. H. H., **M**, XXI, 198; L. L. F., **M**, XLI, 212.
- Jhaj (Jahaj), *Jaipur* (54 F/1; 26° 58' : 77° 7'), iron-ore. A. M. H., **R**, XLVIII, 199,

- Jha-Jha, *Monghyr* (72 L/5; 24° 47': 86° 23'), siliceous breccia. T. H. H., A. R., 1889, 29; columbite. M., XXXIV, 51; manganiferous laterite. L. L. F., M., XXXVII, 617.
- Jhalar, *Attock* (43 C/6; 33° 38': 72° 20'), oil concession. E. H. P., M., XL, 391.
- Jhalawar hill, *Rewah* (63 H/3; 24° 27': 81° 1'), aluminous laterite. C. S. F., M., XLIX, 106.
- Jhalrapatan, *Jhalawar* (54 D/2; 24° 32': 76° 10'), carbonaceous acrolite. W. K. C., R., XLIV, 41; Kangra earthquake, 1905. C. S. M., M., XXXVIII, 243.
- Jhamat, *Attock* (38 O/15; 33° 17' 30": 71° 55'), U. Siwalik syncline. L. L. F., R., LXV, 122.
- Jhamrah, *Jhelum* (43 D/10; 32° 42' 30": 72° 37'), Nummulitic series. L. L. F., R., LXV, 118.
- Jhand, *Attock* (43 C/3; 33° 25' 30": 72° 1'), *Bellia sivalensis*. W. T., R., X, 43 'erratics'. G. C., R., LXI, 327=Jand.
- Jhanda, *Chobpur* (63 D/9; 24° 53': 80° 34'), diamond workings. E. V., R., XXXIII, 286.
- Jhanda, *Kothi* (63 D/9; 24° 48': 80° 42'), diamond workings. E. V., R., XXXIII, 287.
- Jhanda Buru (? Hendeburu), *Singhbhum* (73 F/12; 22° 6': 85° 42'), tourmaline aplite. J. A. D., M., LIV, 130.
- Jhandali, *Punch* (43 G/13; 33° 47': 73° 49'), trough-fold, Mang stage. D. N. W., M., LI, 275.
- Jhandial, *Attock* (43 C/11; 33° 23': 72° 33'), Siwalik syncline. E. H. P., R., LX, 107.
- Jhang, *Punjab* (44 A/7; 31° 17': 72° 18'), meteorite. J. C. B., M., XLIII, 211.
- Jhansi, *United Provs.* (54 K/11; 25° 27': 78° 33'), water-supply. E. H. P., R., LXI, 92; LXII, 93; LXIII, 78.
- Jhansi Ghat, *Narsinghpur* (55 M/12; 23° 7': 79° 35'), ossiferous gravel. W. T., M., II, 297.
- Jhar, *Bundi* (45 O/11; 25° 29': 75° 44'), U. Vindhyan, section. A. L. C., R., LX, 169 (fig.); Ganurgarh shales, 173.
- Jhar Gobindpur, *Saraikela* (73 J/1; 22° 48': 86° 5'), kyanite-rock. J. A. D., M., LII, 228.
- Jharaota, *Jhansi* (54 L/11; 24° 27': 78° 35' 30"), meteorite. J. C. B., M., XLIII, 226.
- Jharech, *Simla* (53 E/4; 31° 3': 77° 11'), Blaini beds. G. E. P., M., LIII, 86.
- Jhargaoon, *Keonjhar* (73 F/8; 22° 3': 85° 23'), iron-ore. E. H. P., R., LIII, 17.
- Jhari, *Chota Udaipur* (46 F/11; 22° 28' 30": 73° 44'), calc-granulite. G. V. H., R., LIX, 348.
- Jharin, *Manbhum* (73 I/6; 23° 44': 86° 25'), coalfield. R. R. S., M., XLI, 49 (Pl. xix); re-survey. E. H. P., R., LXI, 119; LXII, 135=Jherria.
- Jharipani, *Dehra Dun* (53 J/3; 30° 25': 78° 5'), geodetic station. R. D. O., M., XLII, 242 (note).
- Jharpani, *Dhar* (55 B/7; 22° 29' 30": 76° 20'), Bijawar breccia and limestone. W. T. B., M., VI, 258=Jhirpania.
- Jhatnitola, *Ranchi* (73 F/1; 22° 58': 85° 5'), altered angite-plagioclase-rock. J. A. D., M., LIV, 127.

- Jheerna (Jharnatoli), *Hazaribagh* (73 E/9 ; 23° 47' : 85° 35'), Barakar beds, section. T. W. H. H., **M**, VI, 86.
- Jhelia (Kol) R., *Manbhum* (73 I/13 ; 23° 46' 30" : 86° 47'), Barakar beds, sections. W. T. B., **M**, III, 60, 67.
- Jhelum, *Punjab* (43 H/9 ; 32° 56' : 73° 44'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 217.
- Jheri, *Alwar* (54 A/4 ; 27° 14' : 76° 12'), marble. C. A. H., **R**, X, 92 ; XIII, 250 =Jhiri.
- Jherria, *Manbhum* (73 I/6 ; 23° 44' : 86° 25'), coalfield. T. W. H. H., **M**, V, 227 (Pl. i) ; T. H. W., **R**, XXV, 110 (Pls. x-xiii) ; re-survey. G. A. S., **A. R.**, 1902, 14 ; water-supply. H. H. H., **R**, XLIII, 22 ; XLVIII, 14=Jharia.
- Jhijri, *Jubbulpore* (64 A/5 ; 23° 47' 30" : 80° 21' 30"), iron-ore. F. R. M., **R**, XVI, 108.
- Jhilalgarh, *Gwalior* (54 F/8 ; 26° 12' : 77° 30'), L. Bhandar stage, section. F. R. M., **M**, VII, 90.
- Jhilmili, *Surghuja* (64 J/15 ; 23° 24' : 82° 51'), coalfield. T. W. H. H., **M**, XXI, 205 ; R. R. S., **M**, XLI, 80.
- Jhilwara, *Mewar* (45 G/12 ; 25° 13' 30" : 73° 40'), Alwar quartzites. C. A. H., **R**, XIV, 282.
- Jhimar R., *Korea* (64 I/4 ; 23° 9' 30" : 82° 10'), dolerite dyke. L. L. F., **M**, XLI, 156.
- Jhimpir, *Karachi* (40 C/4 ; 25° 6' 30" : 68° 1'), sub-recent conglomerate. W. T. B., **M**, XVII, 153=Jain Pir.
- Jhinkiali, *Kathianwar* (41 J/13 ; 22° 57' : 70° 58'), contact of Wadhwan sandstone with trap. F. F., **M**, XXI, 85 (fig.).
- Jhira, *Goalpara* (78 K/9 ; 25° 57' 30" : 90° 38'), earthquake, 1897, lakelets. R. D. O., **M**, XXIX, 143, 146.
- Jhirak, *Karachi* (40 C/8 ; 25° 3' : 68° 15' 30"), U. Ranikot beds. W. T. B., **R**, XI, 166 ; **M**, XVII, 148 ; fauna. **R**, IX, 12 ; T. H. H., **R**, XXXVIII, 24 ; E. V., **R**, XLVII, 200 ; LV, 64=Jerruck.
- Jhiri, *Alwar* (54 A/4 ; 27° 14' : 76° 12'), granite. A. M. H., **M**, XLV, 16 ; Raialo quartzite, 24 ; marble, 27, 125=Jheri.
- Jhiri, *Narwar* (54 G/6 ; 25° 33' : 77° 29'), U. Vindhyan shales. F. R. M., **M**, VII, 28, 71.
- Jhiria, *Hoshangabad* (55 J/10 ; 22° 44' : 78° 39'), Bagra or Denwa beds, outlier. H. B. M., **M**, X, 169.
- Jhirpa, *Chhindwara* (55 J/10 ; 22° 36' : 78° 31'), Parasuchian crocodile. O. F., **R**, XII, 75.
- Jhirpania, *Dhar* (55 B/7 ; 22° 29' 30" : 76° 20'), Bijawar unconformity. P. N. B., **M**, XXI, 13=Jharpani.
- Jhopu (Zhopu), *Chitral* (42 D/14 ; 36° 36' : 72° 54'), crystalline limestone. H. H. H., **R**, XLV, 289.
- Jhubban, *Narukot* (46 F/11 ; 22° 24' : 73° 39'), conglomerate, Champaner series. W. T. B., **M**, VI, 203.
- Jhugian, *Kashmir* (43 F/11 ; 34° 28' 30" : 73° 42'), Permo-Carboniferous beds. D. N. W., **R**, LXV, 211.
- Jhulda, *Manbhum* (73 E/15 ; 23° 22' : 85° 58'), 'dome' gneiss. V. S., **M**, XVIII, 98 (Pl. i).



- Jhuli, *Betul* (55 J/3; 22° 15' : 78° 4' 30''), Raniganj plants. O. F., **R**, XII, 78.  
 Jhuli, *Chagai* (30 O/8; 29° 5' 30'' : 63° 20'), travertine terraces. E. V., **M** XXXI, 248, 285.  
 Jhunan, *Sambalpur* (64 O/14; 21° 32' 30'' : 83° 51'), galena. V. B., **R**, X, 101; L. L. F., **R**, LIII, 284.  
 Jhunjhunu, *Jaipur* (44 P/8; 28° 8' : 75° 24'), Malani rhyolite. A. M. H., **R**, LIV, 346.  
 Jiadigudda, *Raichur* (57 A/5; 15° 46' : 76° 29'), hematite beds, Dharwar. R. B. F., **M**, XII, 51=Iiadigudda.  
 Jiajore, *Santal Parganas* (72 P/5; 24° 45' 30'' : 87° 26'), fire-clay. M. S., **R**, XXXVIII, 140, 142.  
 Jiddi, *Persian Gulf* (11 J/8; 26° 12' : 50° 25'), raised coral reefs. G. E. P., **M**, XXXIV, pt. 4, 56, 123.  
 Jilingbera, *Ranchi* (73 F/1; 22° 48' 30'' : 85° 8'), vesuvianite. J. A. D., **M**, LIV, 121.  
 Jilalapenta, *Anantapur* (57 E/16; 15° 7' 30'' : 77° 50' 30''), trap flows. W. K., **M**, VIII, 198.  
 Jindar, *Attock* (43 C/15; 33° 29' : 72° 47'), Murree beds. E. H. P., **M**, XL, 400.  
 Jinnaur, *Chhindwara* (55 J/12; 22° 11' 30'' : 78° 36'), colliery, analysis of coal. G. V. H., **R**, LIX, 180.  
 Jiran, *Mandasor* (45 L/15; 24° 18' 30'' : 74° 53' 30''), Delhi series, section. C. A. H., **R**, XIV, 293; sandstones. E. H. P., **R**, LIX, 97.  
 Jirota, *Karauli* (54 B/11; 26° 18' : 76° 39'), oolitic rock, L. Vindhyan. A. M. H., **M**, XLV, 148; brecciation of limestone, 156.  
 Jitaji, *Ranchi* (73 F/9; 22° 57' : 85° 34'), tuff, Iron Ore series. J. A. D., **M**, LIV, 70; uraltitised dolerite, 136 (Pl. xvi, fig. 4).  
 Jitpur, *Manbhum* (73 I/6; 23° 43' : 86° 23'), colliery. H. H. H., **R**, LII, 111.  
 Jittapalli, *N. Arcot* (57 L/13; 12° 59' 30'' : 78° 48' 30''), syenite-pegmatite. L. L. F., **R**, LXV, 111.  
 Joba, *Burdwan* (73 M/2; 23° 40' 30'' : 87° 3' 30''), coal seam. R. R. S., **M**, XLI, 46.  
 Jobat, *Jobut*, *Bhopawar* (46 J/11; 22° 26' : 74° 32' 30''), Bijawar beds. W. T. B., **M**, VI, 200, 314; Vindhyan 'red rock'. P. N. B., **M**, XXI, 9, 16.  
 Joda, *Keonjhar* (73 F/8; 22° 1' : 85° 25' 30''), fault, Iron-ore series. E. H. P., **R**, IX, 78.  
 Jodhpur, *Rajputana* (45 F/3; 26° 18' : 73° 2'), Vindhyan sandstone. W. T. B., **R**, X, 12, 18. T. D. L., **M**, XXXV, 28; contact with Malani rhyolites, 45 (Pl. ii, fig. 1); Malani basalt and tuffs, petrology. P. K. G., **R**, LXV, 539; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 239.  
 Jodiya, *Kathiawar* (41 J/6; 22° 42' : 70° 18'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 110; aftershock, 116.  
 Joga, *Bellary* (57 A/12; 15° 11' : 76° 33'), Dharwar beds, section. R. B. F., **M**, XXV, 104; trap flow, 129, manganese-ore. L. L. F., **M**, XXXVII, 1001.  
 Joga, *Hoshangabad* (55 B/15; 22° 24' 30'' : 76° 48'), lead mine. G. J. Nicholls, **R**, XII, 173 (Pl. ix); L. L. F., **R**, L, 289=Juga.  
 Jogamaradi, *Chitaldrug* (57 B/8; 14° 9' 30'' : 76° 24'), Dharwar trap flow. R. B. F., **R**, XXI, 53.

- Joganaditha Kolla, *Sandur* (57 A/12; 15° 0' : 76° 36'), manganese-ore. L. L. F., **M**, XXXVII, 1003, 1028.
- Jogardi, *Amjhera* (46 J/11; 22° 18' : 74° 43'), *Hemiaster*. P. M. D., **R**, XX, 92.
- Jogeedeh, *Manbhum* (73 I/5; 23° 48' : 86° 15' 30'), trap dykes. T. W. H. H., **M**, V, 323.
- Jogi Pat, *Ranchi* (73 A/11; 23° 27' : 84° 33'), bauxite. C. S. F., **M**, XLIX, 171.
- Jogi Tillah, *Jhelum* (43 H/5; 32° 51' : 73° 26'), old moraines. W. T., **R**, XIII, 240; Magnesian Sandstone, analysis. H. W., **R**, XXIV, 69—Tilla, Mt.
- Jogipali, *Bilaspur* (64 J/12; 22° 12' : 82° 40') Vindhyan beds. W. K., **R**, XVIII, 180.
- Jogipali, *Nellore* (57 N/12; 14° 13' : 79° 44'), potstone. W. K., **M**, XVI, 163.
- Jogitand, *Hazaribagh* (72 L/8; 24° 10' 30" : 86° 17'), Karharbari plants. O. F., **R**, X, 137; XIII, 178.
- Jogpura, *Chota Udaipur* (46 F/14; 22° 32' : 73° 47' 30"), argentiferous galena. G. V. H., **R**, LIX, 349, 354.
- Johan, *Kalat* (34 K/15; 29° 20' : 60° 58'), coal seam. E. V., **R**, XXXVIII, 204 (Pl. viii).
- Johilla R., *Kewah* (64 E/N. W.; 23° 35' : 81° 12'), syenitic porphyry. J. G. M., **M**, II, 123; Gondwana beds, 171; coalfield. T. W. H. H., **R**, XIV, 126, 312; **M**, XXI, 169 (Pls. v, vi); R. R. S., **M**, XLI, 77.
- John Lawrence I., *Andamans* (86 H/4; 12° 5' : 93° 2'), Archipelago clays. E. R. G., **R**, LIX, 220.
- Joida, *N. Kanara* (48 I/8; 15° 9' 30" : 74° 29' 30"), manganese-ore. E. H. P., **R**, LX, 47.
- Jojobir, *Singbhum* (73 F/2; 22° 43' : 85° 9'), sillimanite-cordierite-rock. J. A. D., **M**, LIV, 58 (Pl. xi, fig. 4); porphyritic granite-gneiss. L. A. N., **R**, I XV, 516.
- Jojoda, *Saraikela* (73 F/6; 22° 41' : 85° 29' 30"), potstone. J. A. D., **M**, LIV, 90.
- Jojohatu, *Singbhum* (73 F/10; 22° 31' : 85° 38'), ultrabasic rocks, chromite. J. A. D., **M**, LIV, 96, 158.
- Jokan, *Punch* (43 K/1; 33° 53' 30" : 74° 7'), Bituminous limestone stage. D. N. W., **M**, LI, 192, 265.
- Joladarashi, *Bellary* (57 E/4; 15° 8' : 77° 7'), iron-ore. R. B. F., **M**, XXV, 153.
- Jolchi-mainak, *Kashgar* (42 M/4; 39° 8' : 75° 10'), crystalline limestone. H. H. H., **R**, XLV, 319.
- Joli Kot, *Naini Tal* (53 O/7; 29° 20' : 79° 29'), Himalayan boundary fault. C. S. M., **R**, XXIII, 217.
- Jollinka, *Almora* (62 B/11; 30° 21' : 80° 41'), Carboniferous-Trias, section. C. L. G., **M**, XXIII, 189 (Pl. ix, fig. 3); L. Trias. C. D., **M**, XXXVI, 227, 234; Muschelkalk, 270, 271.
- Jongri, *Sikkim* (78 A/3; 27° 29' : 88° 9'), gneiss. P. N. B., **R**, XXIV, 221; hornblende-granite. H. H. H., **M**, XXXVI, 182.
- Joonacha, *Cutch* (41 E/2; 23° 38' : 69° 1' 30"), rippling in Jurassic sandstone. A. B. W., **M**, IX, 224.
- Joonagea, *Cutch* (41 A/15; 23° 28' 30" : 68° 50'), mammalian bones, Eocene. A. B. W., **M**, IX, 255=Junagia.
- Joongaon, *Chanda* (56 M/13; 19° 53' 30" : 79° 48'), augite-norite, charnockite series. K. H., **R**, LV, 256.

- Joonootla (Junutula), *Kurnool* (57 1/4; 15° 9': 78° 3'), 'plateau quartzites', Paniam stage. W. K., **M**, VIII, 55 (fig.).
- Jooria, *Cutch* (41 E/11; 23° 26': 69° 37'), anticline in Jurassic beds. W. T. B., **M**, VI, 24; Tertiary beds. A. B. W., **M**, IX, 201; Jurassic ammonites. W. W., **R**, IV, 99.
- Joorun, *Cutch* (41 E/15; 23° 22': 70° 0'), Jurassic beds, section. A. B. W., **M**, IX, 144.
- Jootoor (Juturu), *Anantapur* (57 F/13; 14° 56' 30": 77° 55'), olivine-dolerite, petrology. P. L., **R**, XXIII, 259, T. H. H., **R**, XXX, 19, 23.
- Jorakat, *Hazaribagh* (73 E/5; 23° 50' 30", 85° 22'), overthrust of mica-schist on Barakars. A. J., **M**, LII, 84 (fig.), 142.
- Jorapokhur, *Mambhum* (73 1/6; 23° 42': 86° 24'), alteration of sandstone by trap. T. W. H. H., **M**, V, 323.
- Jorasimar, *Hazaribagh* (72 H/10; 24° 34': 85° 43'), beryl. L. L. F., **R**, LIII, 266; mica mines. C. S. F., **R**, LVII, 244.
- Joraturria, *Raipur* (64 H/13; 20° 45': 81° 45'), L. Vindhyan shales. P. N. B., **A. R.**, 1899, 38.
- Jorhat, *Sibsagar* (83 J/1; 26° 46': 94° 13'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 340; boring for water. T. D. L., **R**, XL, 105.
- Jorjanki (Jole Janaki), *Burdwan* (73 M/2; 23° 40': 87° 8' 30"), coal seam. W. T. B., **M**, III, 83.
- Jorobari, *Singbhum* (73 F/2; 22° 31': 85° 13'), sheared granite veins. J. A. D., **M**, LIV, 129.
- Joru (Jaura), *Bhadrawar* (43 O/16; 33° 5': 75° 48'), gneissose granite. R. D. O., **R**, XXI, 159.
- Joru, *Persia* (10 E/10; 31° 33': 49° 32'), gypsum beds, Fars series. G. E. P., **M**, XXXIV, pt. 4, 78.
- Jothvad, *Narukot* (40 F/11; 22° 23': 73° 44'), blanfordite. L. L. F., **M**, XXXVII, 128; manganese-pyroxene, 135, 138; rhodonite, 143; spessartite, 170, 177, 297; piedmontite, 190; manganese-micas, 196-9; greenovite, 201; chalcopyrite, 211; gondite, 320, 330, 646 (Pls. xi, fig. 1 & xvii); manganese-ore, origin. **R**, XLI, 4.
- Jotiba, *Kolhapur* (47 L/1; 16° 47' 30": 74° 10'), building stone. H. C. J., **R**, LIV, 426.
- Joulee, *Jubbulpore* (64 A/3; 23° 23' 30": 80° 14'), mineral paint. T. O., **R**, V, 9 =Jauli.
- Jowai, *Jaintia Hills* (83 C/3; 25° 26': 92° 12'), Cretaceous beds. P. N. B., **A. R.**, 1901, 23; C. S. F., **R**, LXIII, 186; fire-clay. T. H. H., **A. R.**, 1903, 10=Jawai.
- Joya Mair, *Jhelum* (43 C/16; 33° 0' 30": 72° 49'), dome fold, Siwalik. D. N. W., **R**, LXI, 358 (Pl. xxix).
- Jualamukhi, *Kangra* (53 A/5; 31° 52': 76° 19'), gas spring. H. B. M., **M**, III, pt. 2, 146=Jawalamukhi.
- Jub, *Hazara* (43 C/13; 33° 52' 30": 73° 0'), Nummulitic zone, boundary fault. C. S. M., **M**, XXVI, 207.
- Jubal, *Sirmur* (53 F/5; 30° 49': 77° 17' 30"), Jutogh overthrust. G. E. P., **M**, LIII, 25.

- Jubar, *Simla* (53 E/4; 31° 9': 77° 5'), Chail overthrust, section. G. E. P., **M**, LIII, 98.
- Jubbulpore, *Central Provs.* (55 M/16; 23° 10': 79° 56'), 'Upper Damuda (Lameta) beds'. J. G. M., **M**, II, 176; H. B. M., **R**, V, 116 (Pl. ii); C. A. Matley, **R**, LIII, 142 (Pls. xvii, xviii); Dinosaurian bones. LV, 105 (Pls. viii-xiii); fire-clay. F. R. M., **R**, XVI, 114; pottery clay. XXII, 140=Jabalpur.
- Jubburseesa (Zoboshishe) pass, *Ladakh* (52 K/8; 33° 8': 78° 15'), orthoclase in porphyritic gneiss. F. R. M., **M**, V, 171.
- Jubra, *Hazaribagh* (73 E/1; 23° 54' 30": 85° 10'), Barakar grits and coal. A. J., **M**, LII, 30 (Pl. ii).
- Jubriyan, *Hazara* (43 G/1; 33° 54' 30": 73° 11'), Cretaceous fossils. C. S. M., **M**, XXVI, 200=Jabrian.
- Judaidah (Jideda), *Iraq* (35° 58': 43° 52'), sulphur and bitumen. E. H. P., **M**, XLVIII, 33.
- Judawas *Alwar* (54 A/7; 27° 21' 30": 76° 18' 30"), silver-lead-ore. A. M. H., **M**, XLV, 122=Indawas.
- Judes Geri (Indisgers), *Tumkur* (57 C/16; 13° 10': 76° 53' 30"), meteorite. J. C. B., **M**, XLIII, 212.
- Juga, *Hoshangabad* (55 B/15; 22° 24' 30": 76° 48'), Bijawar sandstones. P. N. B., **M**, XXI, 11, 13=Joga.
- Jugani, *Bastar* (65 E/9; 19° 45': 81° 39'), mica. T. H. H., **M**, XXXIV, 55.
- Juggiapett, *Kistna* (65 D/1; 16° 53': 80° 5' 30"), supposed coal. T. O., **R**, II, 25; R. R. S., **M**, XLI, 105; Kurnool beds. W. K., **M**, VIII, 295; turgite. F. R. M., **R**, XIV, 304=Jaggayapet.
- Jugguldugga (Jagaldaga), *Palamau* (73 A/10; 23° 44': 84° 35' 30"), Barakar beds, section. V. B., **M**, XV, 73; Raniganj beds, 84.
- Juggumpett, *Godavari* (65 K/4; 17° 10': 82° 3'), U. Gondwana sandstones. T. H. H., **R**, XXXII, 158.
- Jugjuri, *Nilgiri, Eastern States* (73 K/7; 21° 22': 86° 30'), potstone. W. T. B., **M**, I, 261; **R**, V, 62.
- Ju-i-dukhtar, *Afghanistan* (38 A/16; 35° 1' 30": 68° 47'), Helmand series, H. H. H., **M**, XXXIX, 26.
- Juin hill, *Sirmur* (53 F/10; 30° 42': 77° 36'), Blaini conglomerate. H. B. M., **M**, III, pt. 2, 44; Blaini beds, inversion on Infra-Krol. G. E. P., **M**, LIII, 36.
- Jujhari, *Jubbulpore* (64 A/3; 23° 24' 30": 80° 4'), laterite. P. N. B., **R**, XXII, 219.
- Jullundur, *Punjab* (44 M/11; 31° 20': 75° 35'), Kangra earthquake, 1905. E. H. P., **M**, XXXVIII, 146.
- Juluk-bash, *Kashgar* (42 M/12; 39° 12': 75° 40'), crystalline limestone. H. H. H., **R**, XLV, 319.
- Jumalapur, *Raichur* (57 A/5; 15° 50': 76° 20'), trap dykes. R. B. F., **M**, XII, 60.
- Jumara, *Cutch* (41 E/2; 23° 41': 69° 4'), Jurassic fossils. A. B. W., **M**, IX, 221.
- Jumbay (Jambadai), *S. Arcot* (58 M/1; 11° 59' 30": 79° 3'), pistacite-gneiss. W. K., **M**, IV, 304.
- Jumbooghora, *Narukot* (46 F/11; 22° 22': 73° 44'), slates. W. T. B., **M**, VI, 379=Jambughoda.
- Jumgahtawng, *Myitkyina* (92 C/11; 25° 29': 96° 36' 30"), granite. E. H. P., **R**, LXIII, 98.

- Jumlagor, *Khariar* (64 L/6; 20° 38': 82° 27'), Vindhyan quartzites. V. B., **R**, X, 175.
- Jummoonee R., *Manbhūm* (73 I/2; 23° 44': 86° 11'), Talchir-Raniganj beds, sections. T. W. H. H., **M**, V, 240, 295, 315; coal seams, 330=Jamunia R.
- Jummulmudagoo (Jammalamadugu), *Cuddapah* (57 J/5; 14° 50' 30": 78° 23'), limestone and shales, Kurnool series. W. K., **R**, II, 8; **M**, VIII, 67.
- Jumnotri, *Tehri* (53 I/8; 31° 0': 78° 27'), hot springs. T. O., **M**, XIX, 123.
- Jumting Jum, *Hukawng* (92 B/16; 26° 9': 96° 57'), brine spring. L. L. F., **R**, LXV, 63.
- Junagia, *Cutch*, (41 A/15; 23° 28' 30": 68° 50'), Gaj series, *Pecten*. E. V., **M**, L, 432=Joonagea.
- Junan, *Cutch* (41 I/5; 23° 50': 70° 18'), Jurassic beds, section. A. B. W., **M**, IX, 72.
- Junapani, *Nagpur* (55 O/7; 21° 29': 79° 18'), piedmontite. L. L. F., **M**, XXXVII, 189; iron-ores, 215; manganese-ore, 874.
- Junara, *Yeotmal* (55 P/4; 20° 3': 79° 5'), coal seam. T. W. H. H., **M**, XIII, 50; R. R. S., **M**, XLI, 89.
- Junawani, *Nagpur* (55 O/7; 21° 29': 79° 16'), hollandite. L. L. F., **M**, XXXVII, 90, 93; manganhedenbergite, 131; rhodonite, 141; piedmontite, 189; mangano-phylite (?), 197; manganese-ore, 970.
- Juned, *Simla* (53 F/1; 30° 59' 30": 77° 13'), Chail quartzite. G. E. P., **M**, LIII, 89.
- Junewani, *Nagpur* (55 O/6; 21° 35': 79° 24' 30"), manganese-ore. L. L. F., **R**, LXV, 102.
- Junga, *Simla* (53 E/4; 31° 2': 77° 12'), talc-schist, Chail series. G. E. P., **M**, LIII, 89.
- Jungani, *Bastar* (65 E/9; 19° 45': 81° 30'), mica. P. N. B., **A. R.**, 1900, 41; L. L. F., **R**, L, 294.
- Jungel, *Mirzapur* (63 L/14; 24° 31': 82° 51'), Red Shale series. R. D. O., **M**, XXXI, 8, 169; Bijawar rocks. E. V., **M**, XXXI, 82 (fig.), 90.
- Jungian, *Punch* (43 K/5; 33° 58': 74° 16' 30"), waterfalls. D. N. W., **M**, LI, 206; lamprophyre, 223.
- Jungikhapa, *Betul* (55 J/4; 22° 9' 30": 78° 10' 30"), coal seam. E. H. P., **R**, LIX, 90.
- Jungshahi, *Karachi* (35 P/13; 24° 51' 30": 67° 46'), Nari beds. W. T. B., **M**, XVII, 50, 162; water-supply. E. H. P., **R**, LX, 57.
- Jungumrajilly (Zangamrajapalle), *Cuddapah* (57 J/13; 14° 46': 78° 53'), cleavage in Cuddapah slates. W. K., **M**, VIII, 137 (fig.); copper-ore, 270; lead mines, 273.
- Jupla, *Palawan* (72 D/2; 24° 32': 84° 0' 30"), granite. E. V., **M**, XXXI, 102=Japla.
- Jured, *Hazara* (43 F/10; 34° 41': 73° 33'), marble. D. N. W., **R**, LXV, 197.
- Jurkour, *Rewah* (63 L/6; 24° 38': 82° 16'), Kaimur-Rewah boundary. F. R. M., **M**, VII, 62.
- Jurlikhar, *Khairagarh* (64 C/10; 21° 30': 80° 44' 30"), iron-ore. P. N. B., **R**, XX, 168.
- Jurwa, *Hazaribagh* (73 E/13; 23° 45' 30": 85° 46'), Panchet beds. T. W. H. H., **M**, VI, 104.
- Juswal, *Hazara* (43 F/8; 34° 6' 30": 73° 16'), Trias-Eocene, section. C. S. M., **M**, XXVI, 163 (Pls. iii, fig. 1 & vii).

- Jutana, *Jhelum* (43 H/2; 32° 43' 30" : 73° 9'), Cambrian sequence. A. B. W., **M**, XIV, 141 (Pl. vi); F. N., **R**, XXVII, 74; C. S. F., **R**, LXI, 167, 175 (Pl. ii); E. H. P., **R**, LXII, 159.
- Jutogh hill, *Simla* (53 E/4; 31° 6' : 77° 7'), structure. R. D. O., **R**, XX, 148 (Pl. x); G. E. P., **M**, LIII, 100 (figs.)=Jatogh hill.
- Juzzer (Jujjuru), *Kistna* (65 D/6; 16° 44' 30" : 80° 25'), granitoid gneiss band. R. B. F., **R**, XVIII, 13; brecciated quartz reef, 20.
- Jyelpetty (Ayalpatti), *Salem* (58 I/6; 11° 32' 30" : 78° 21'), trap dyke. W. K., **M**, IV, 331.
- Jyrampore (Jairampur), *Manbhum* (73 I/6; 23° 42' 30" : 86° 25' 30"), coal seam. T. W. H. H., **M**, V, 251.
- Kab, *Punch* (43 G/9; 33° 45' 30" : 73° 36'), gorge. D. N. W., **M**, LI, 205; Siwalik boundary, 326.
- Kabaing, *L. Chindwin* (84 J/12; 22° 12' : 94° 41'), sulphurous spring. E. H. P., **R**, LXI, 72; *Stegodon* bone, 111.
- Kabaki, *Shahpur* (43 D/2; 52° 37' : 72° 13'), lake. T. D. L., **R**, XL, 42 (Pls. iv & xiii, fig. 3)=Khabaki.
- Kabat, *Myingyan* (84 O/8; 21° 4' : 95° 18'), anticline, Pegu series. E. H. P., **R**, XXXIV, 242 (Pls. xxxi-xxxiv); **M**, XL, 134 (Pls. xxxiii, xxxiv); Miocene fossils. G. C., **R**, XXXVI, 132.
- Kabola, *Idar* (46 E/2; 23° 31' : 73° 13' 30"), sand hills. C. S. M., **M**, XLIV, 143.
- Kabuchi Kotal, *Afghanistan* (33 M/12; 35° 13' : 67° 38"), travertine. H. H. H., **M**, XXXIX, 59.
- Kabul, *Afghanistan* (38 F/2; 34° 31' : 69° 11'), crystalline rocks. C. L. G., **R**, XX, 23; H. H. H., **M**, XXXIX, 17.
- Kabulayatkatti, *Dharwar* (48 M/11; 15° 18' : 75° 38'), old workings for gold. J. M. M., **R**, XXXIV, 120 (Pl. xii).
- Kabwet, *Shwebo* (84 N/14; 22° 44' 30" : 95° 56'), coalfield. G. E. G., **A. R.**, 1898, 48; R. R. S., **M**, XLI, 71.
- Kabyu, *L. Chindwin* (84 J/12; 22° 12' : 94° 40'), fault. E. H. P., **R**, LXI, 111.
- Kach, *Sibi* (34 N/7; 30° 26' : 67° 19'), Cretaceous beds. W. T. B., **M**, XX, 141; Eocene-Cretaceous unconformity, 153, 187 (fig.).
- Kacha, *Singbhum* (73 J/2; 22° 45' : 86° 10'), kyanite. J. A. D., **M**, LII, 234.
- Kacha Koh, *Chagai* (30 G/2; 29° 32' : 61° 9'), selenite and sulphur. T. H. H., **R**, XXX, 129.
- Kachao, *Manipur* (83 K/12; 25° 8' : 94° 44'), volcanic ash beds. R. D. O., **M**, XIX, 219, 222.
- Kachapur, *Raichur* (56 D/8; 16° 5' : 76° 25'), pre-trappean gravels. R. B. F., **M**, XII, 168.
- Kachar, *Korea* (64 I/7; 23° 19' : 82° 24'), coal seams. T. W. H. H., **M**, XXI, 201, 240.
- Kacharban, *Punch* (43 K/1; 33° 56' : 74° 13'), Kopra gneiss. D. N. W., **M**, LI, 223, 299.
- Kacharwahi, *Nagpur* (55 O/7; 21° 20' : 79° 23'), braunite. L. L. F., **M**, XXXVII, 57-63, 67-72 (figs.); blanfordite, 127 (figs.), 297; juddite, 159; manganese-ore, 922 (Pl. xli, fig. 1).

- Kachhan Kundi, *Korea* (64 I/8; 23° 10' 30": 82° 20'), coal lenticles in Barakar sandstone. L. L. F., **M**, XLI, 173 (Pl. xxiii, fig. 2).
- Kachi Dhana, *Chhindwara* (55 K/14; 21° 43' 30": 78° 47'), manganese-pyroxene. L. L. F., **M**, XXXVII, 136, 297; spessartite, 172 (fig.); manganchlorite, 195; magnetite, 215; gondite, 345; manganese-ore, 773; **R**, XXXIII, 209; braunite crystals. XLI, 44=Kuchee.
- Kach-i-Mahomed Ali Khan, *Afghanistan* (38 J/2; 34° 31': 70° 1'), Siwalik beds. H. H. H., **M**, XXXIX, 43.
- Kachinar, *Rewah* (63 H/16; 24° 10' 30": 81° 59'), Gondwana-gneiss boundary. R. D. O., **M**, XXXI, 137 (fig.).
- Kachodar, *Rewah* (64 E/3; 23° 18': 81° 11'), Raniganj plants. O. F., **R**, XIII, 185; T. W. H. H., **R**, XIV, 132.
- Kachor-Rewassa, *Jaipur* (45 M/7; 27° 27': 75° 15'), salt lake. C. A. H., **R**, XIII, 201.
- Kadakola, *Mysore* (57 D/12; 12° 11': 76° 40'), chromite. T. H. H., **R**, XXXIX, 27.
- Kadampur, *Dharwar* (48 M/11; 15° 21': 75° 43'), pseudo-spherulitic rock. J. M. M., **R**, XXXIV, 114.
- Kadantaung, *Tavoy* (95 J/8; 14° 13': 98° 16'), molybdenum. J. C. B., **M**, XLIV, 219; wolfram mine, 279.
- Kadaperikupam, *S. Arcot* (58 M/9; 11° 58' 30": 79° 44'), Cretaceous limestone. H. W., **R**, XXVIII, 19.
- Kadavur, *Trichinopoly* (58 J/2; 10° 36': 78° 12'), rutile. T. H. H., **R**, XXXIX, 270; wolfram, 280; zircon. G. H. T., **R**, LII, 309.
- Kadeik, *Thaton* (94 H/5; 16° 46': 97° 25'), tin-ore. J. C. B., **R**, L, 105; LVI, 98.
- Kadeing, *Thayetmyo* (85 I/11; 19° 22': 94° 36' 30"), nummulitic limestone. G. C., **R**, XLI, 322.
- Kadeji R., *Karachi* (35 O/12; 25° 6': 67° 31'), Gaj series, *Ostrea*. E. V., **M**, L, 423=Khadeji R.
- Kadeng-mah-ngo, *Thayetmyo* (85 M/11; 19° 20': 95° 38'), brine spring. W. T., **R**, VI, 68.
- Kadhati, *Coimbatore* (58 E/6; 11° 44': 77° 16' 30"), dolerite. H. H. H., **M**, XXXIII, pt. 2, 60.
- Kadimuk Mt., *Kohat* (38 K/11; 33° 24': 70° 33'), Cretaceous beds. A. B. W., **R**, XII, 110.
- Kadiuba, *Naga Hills* (83 G/13; 25° 47': 93° 57'), Tipam series. E. H. P., **R**, XLII, 256.
- Kadkol, *Sangli* (48 M/12; 15° 11': 75° 41'), Dharwar schists. J. M. M., **R**, XXXIV, 109.
- Kadmala Kalva, *Kurnool* (57 I/10; 15° 31' 30": 78° 35'), hot spring. T. O., **M**, XIX, 148.
- Kadonyat, *Myitkyina* (92 C/7; 25° 28': 96° 15' 30"), jadeite. E. H. P., **R**, LXII, 56; pyrites, 61; schists, 109.
- Kadradab, *Kurnool* (57 I/1; 15° 48': 78° 6'), serpentinous limestone. W. K., **M**, VIII, 166.
- Kadrewa, *Korea* (64 I/8; 23° 8' 30": 82° 19'), coal seams. L. L. F., **M**, XLI, 209, 227.

- Kadu Lake, *Sagaing* (84 N/16; 22° 2': 95° 53'), salt. E. H. P., R, LXI, 71; soap-sand. LXII, 67.
- Kadutaung, *Tavoy* (95 J/3; 14° 25': 98° 8'), carbonaceous argillite. J. C. B., M, XLIV, 182.
- Kadwal, *Chota Udaipur* (46 F/15; 22° 29' 30": 73° 46'), actinolite in Champaner limestone. W. T. B., R, V, 85; Champaner quartzite. G. V. H., R, LIX, 345; iron-ore, 354=Kudwal.
- Kadwe, *Tavoy* (95 J/8; 14° 11': 98° 17'), wolfram mine. J. C. B., M, XLIV, 280.
- Kaeo (? Koclaoe), *Hardoi* (54 M/15; 27° 20': 79° 58' 30"), meteorite. J. C. B., M, XLIII, 213.
- Kaffir Kot, *Waziristan* (38 K/16; 33° 11': 70° 46'), castellated rocks. A. B. W., M, XI, 118 (fig.).
- Kafir Kala, *Afghanistan* (32 P/3; 36° 24': 67° 12'), Cretaceous limestone. C. L. G., R, XX, 20.
- Kafir Kot, *D. I. Khan* (38 P/6; 32° 30': 71° 20'), Productus limestone, fossils. A. B. W., M, XVII, 272, 295.
- Kafload, *Patiala* (53 E/4; 31° 5' 30": 77° 3' 30"), phyllites, Chail series. G. E. P., M, LIII, 94.
- Kaga, *Spiti* (52 L/4; 32° 3': 78° 1' 30"), Ladinic stage, fossils. H. H. H., M, XXXVI, 74; C. D., M, XXXVI, 272=Raga.
- Kagal, *Hazara* (43 F/7; 34° 26' 30": 73° 22'), Infra-Trias beds. E. H. P., R, LXIII, 127.
- Kagankarai, *N. Arcot* (57 L/7; 12° 25': 78° 29'), 'trap-shotten' gneiss. T. H. H., M, XXVIII, 201; marble. E. H. P., R, LVIII, 24=Kakangari.
- Kage Neri, *Hassan* (48 P/9; 12° 48': 75° 40'), mica. T. H. H., M, XXXIV, 68.
- Kaginelli, *Shimoga* (48 N/11; 14° 17': 75° 30'), manganese ore. L. L. F., M, XXXVII, 1133.
- Kagwadar, *Kathiawar* (41 P/5; 20° 58': 71° 23'), Gaj series, fossils. F. F., M, XXI, 116.
- Kaha R., *D. G. Khan* (39 G/14; 29° 35': 69° 56'), erosion of gorge. W. T. B., M, XX, 134; Cretaceous-Siwalik beds. 215-218 (fig.); Cretaceous fossils. H. S. B., R, LVI, 265, 266.
- Kahan, *Mergui* (95 L/11; 12° 22': 98° 43'), tin-ore. T. W. H. H., R, XXII, 188.
- Kahan, *Sibi* (39 C/15; 29° 18': 68° 54'), overlap of U. Nari beds. G. E. P., R, XXXVII, 145.
- Kahan R., *Jhelum* (43 H/9; 32° 56': 73° 39'), Siwalik beds, section. A. B. W., M, XIV, 125 (Pl. xii, fig. 11).
- Kahli, *Rawalpindi* (43 G/11; 33° 20' 30": 73° 32'), anticline, Siwalik. D. N. W., M, LI, 360.
- Kahmard valley, *Afghanistan* (33 M/11; 35° 20': 67° 40'), Red Grit series. H. H. H., M, XXXIX, 34; Tertiary beds, 37-39; Cretaceous limestone, 60.
- Kahnu, *Persia* (25 E/9; 27° 57': 57° 44' 30"), epidote-schist. G. H. T., R, LIII, 54 (Pl. xi, fig. 1)=Khanu.
- Kahnu Bala, *Persia* (25 E/7; 27° 29': 57° 19'), Siwalik beds. G. H. T., R, LIII, 67.
- Kahuta, *Rawalpindi* (43 G/6; 33° 36': 73° 23'), Kamial beds. D. N. W., M, LI, 281, 354; Murree inlier, 339.



- Kai (Kahi), *Kohat* (38 K/15; 33° 28' 30": 70° 51' 30"), Eocene beds. A. B. W., R, XII, 108; H. H. H., M, XXVIII, 99.
- Kaida Buru, *Singhbhum* (73 F/10; 22° 37': 85° 43'), gabbroidal dolerite. J. A. D., M, LIV, 137.
- Kaidu Ga, *Hukawng* (92 B/16; 26° 13' 30": 96° 59'), boulder conglomerate. L. L. F., R, LXV, 79.
- Kaikol gudda, *Bellary* (57 B/6; 14° 40' 30": 76° 20'), hornblende-schist, garnets. R. B. F., M, XXV, 39.
- Kailana, *Dehra Dun* (53 F/14; 30° 41': 77° 53'), Simla slates. G. E. P., M, LIII, 46.
- Kailar, *Punch* (43 K/1; 33° 55': 74° 10' 30"), thrust-plane. D. N. W., M, LI, 298.
- Kailasagiri, *N. Arcot* (57 P/1; 12° 50': 79° 4'), schistose gneiss. R. B. F., R, XII, 192.
- Kailassa, *Vizagapatam* (65 O/5; 17° 46': 83° 16'), garnetiferous gneiss. W. K., R, XIX, 150.
- Kailing (Kyclang), *Lahul* (52 H/2; 32° 34' 30": 77° 2'), Pangi slates-gneiss boundary. R. L., R, XI, 56.
- Kailu, *Merwara* (45 J/12; 26° 0': 74° 32'), outlier, Talhi rocks. E. H. P., R, LVIII, 67.
- Kailwara, *Jubbulpore* (64 A/5; 23° 50': 80° 22'), iron-ore. F. R. M., R, XVI, 108.
- Kailwas, *Jubbulpore* (55 M/15; 23° 21' 30": 79° 59'), pyrochsite. P. N. B., R, XXI, 86.
- Kainur, *Garhwal* (53 N/4; 30° 1': 79° 3'), garnetiferous mica-schist, petrology. C. S. M., R, XXI, 24.
- Kair Pahar, *Santal Parganas* (72 P/12; 24° 11': 87° 31' 30"), Dubrajpur stage, plants. V. B., M, XIII, 201.
- Kaira (Khiad), *Bijapur* (48 M/9; 15° 51': 75° 42'), stone implements. R. B. F., M, XII, 242.
- Kaira, *Bombay* (46 B/9; 22° 45': 72° 41'), Cutch earthquake, 1819. R. D. O., M, XLVI, 113.
- Kaira, *Punch* (43 G/10; 33° 40': 73° 42'), fault. D. N. W., M, LI, 326.
- Kaira-gully, *Hazara* (43 G/5; 33° 59': 73° 24'), Trias-Eocene, section. W. W., R, V, 17 (fig.)=Khairagali.
- Kairgura, *Adilabad* (56 M/8; 19° 14': 79° 22'), coal seam. T. W. H. H., R, XI, 20; analysis. R. R. S., M, XLI, 100=Khaigura.
- Kairi, *Chamba* (43 P/14; 32° 37': 75° 55'), trap rocks. C. A. M., R, XV, 35.
- Kaisar (Mandar), *Jaipur* (45 M/13; 27° 48': 75° 56'), mica. A. M. H., R, LIV, 389.
- Kaitee, *Nilgiri* (58 A/11; 11° 22' 30": 76° 44'), escarpment. H. F. B., M, I, 239 (fig.).
- Kaithaha, *Rewah* (63 H/8; 24° 11' 30": 81° 18'), olivine-norite. P. N. D., M, XXXI, 141; petrology. T. H. H., R, XXX, 20 (Pls. i, fig. 1 & ii, figs. 1-3).
- Kaithar (Khotar), *Kashmir* (43 F/10; 34° 30' 30": 73° 30' 30"), Panjal Volcanic series. D. N. W., M, LI, 257.
- Kajadoni, *Bijapur* (47 P/8; 16° 10': 75° 27'), malachite in Kaladgi limestone. R. B. F., M, XII, 126.
- Kajalwani, *Chhindwara* (55 K/14; 21° 41': 78° 50'), gneiss. P. N. D., R, XXXIII, 223.

- Kajlidongri, *Jhabua* (46 J/5; 22° 57': 74° 28'), pyrophanite ?. L. L. F., **M**, XXXVII, 37; braunite, 57 (figs.), 68-72; hollandite, 87; blanfordite, 127, 686; pyroxenes, 136; rhodonite, 141, 686; winchite, 149, 686; spessartite, 169, 174, 178; piedmontite, 189; carpholite ?, 192, 687; manganese micas, 196-7, 687; arsenates, 219, 342; barytes, 221, 687; gondite series, 319, 330, manganese-ore, 679 (Pls. xviii, xix); hematite crystals. **R**, XLV, 239 (Pl. xxiv); hollandite, crystallography. **R**, XLVIII, 103 (Pl. i); tilasite. H. H. H., **R**, XLI, 60; piedmontite, analysis. E. H. P., **R**, LXIII, 26.
- Kaj-Nag range, *Kashmir* (43 J/4; 34° 15': 74° 5'), metamorphic rocks. R. L., **R**, XV, 16=Kazi Nag.
- Kajora, *Burdwan* (73 M/2; 23° 37': 87° 11' 30"), Raniganj series, coal seams. E. H. P., **R**, LXII, 139.
- Kajuri Kach, *Waziristan* (38 H/16; 32° 4': 69° 52'), dam-site. T. H. H., **R**, XXXV, 36; E. H. P., **R**, LXIII, 64.
- Kakaigadra, *Bilaspur* (64 J/15; 22° 15': 82° 55'), Kamthi beds. W. K., **R**, XVIII, 195.
- Kakalgaon, *Bijapur* (47 P/12; 16° 6' 30": 75° 37' 30"), L. Kaladgi shales. R. B. F., **M**, XII, 127; quartz reef, 128.
- Kakangari, *N. Arcot* (57 I/7; 12° 25': 78° 29'), meteorite. J. C. B., **M**, XLIII, 213=Kagankarui.
- Kakarhatti, *Simla* (53 B/13; 31° 0': 76° 58' 30"), limestone, pseudo-organisms. G. E. P., **M**, LIII, 45=Kukurhutti.
- Kakool, *Hazara* (43 F/8; 34° 12': 73° 17'), Infra-Trias and Trias limestone. C. S. M., **M**, XXVI, 122.
- Kakor, *Jaipur* (45 N/16; 26° 1': 75° 55'), granite, Delhi series. A. M. H., **R**, LIV, 352.
- Kakrala, *Jhelum* (43 H/5; 32° 52' 30": 73° 22'), U.—M. Siwalik unconformity. G. E. P., **R**, XLIII, 277.
- Kakrul, *Punch* (43 G/10; 33° 44': 73° 39'), Siwalik anticline. D. N. W., **M**, LI, 274, 327.
- Kakti, *Sangli* (48 I/9; 15° 56': 74° 31' 30"), pre-trappean scarp. R. B. F., **M**, XII, 96.
- Kakuta, *Punch* (43 G/14; 33° 43': 73° 57'), anticline, Murree series. D. N. W., **M**, LI, 321.
- Kal, *Tibet* (71 P/3; 28° 21': 87° 13' 30"), Permian-Triassic limestone. A. M. H., **R**, LIV, 232.
- Kal Drug, *Kadur* (48 O/14; 13° 38': 75° 53'), Dharwar conglomerates. R. B. F., **R**, XV, 195; XXI, 48.
- Ka'la Hakim Khan, *Sibi* (34 N/11; 30° 17': 67° 31'), coal seams, sections. C. J. G., **R**, XXVI, 128=Khila Hakim Khan.
- Kala Madrasch, *Persia* (10 I/1; 31° 49': 50° 9'), Cretaceous shales. G. E. P., **M**, XXXIV, pt. 4, 83, 85.
- Kala Pani, *Bhutan* (78 N/13; 26° 55': 91° 51'), Gondwana beds, coal seams. G. E. P., **R**, XXXIV, 24, 31 (Pl. vi, fig. 2).
- Kala Pani, *Khasi Hills* (78 O/11; 25° 22": 91° 42'), Cretaceous beds and trap. T. O., **M**, I, 122 (Pl. vi).
- Kala Tso, *Tibet* (77 H/7; 28° 18': 89° 20'), lake. H. H. H., **R**, XXXII, 167; **M**, XXXVI, 132, 134.

- Kala Tul, *Persia* (10 E/14; 31° 39' : 49° 54'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 80.
- Kalabagh, *Hazara* (43 F/8; 34° 4' 30" : 73° 22'), nummulitic limestone. C. S. M., **M**, XXVI, 183.
- Kalabagh, *Mianwali* (38 P/9; 32° 58' : 71° 33'), gorge of Indus. A. B. W., **M**, XIV, 50 (Pl. v); Saline series-Tertiary, section, 273 (Pl. xxxi, fig. 54); XVII, 246; position of Red Marl. C. S. M., **R**, XXIV, 37 (Pl. iv, fig. 12); M. S., **R**, L, 77 (fig.); coal seams. R. R. S., **R**, XXXI, 15; M, XLI, 111; alum works. N. D. D., **R**, XL, 265 (Pls. xl-xliii); bituminous shale. E. H. P., **M**, XL, 431; potash salts. M. S., **R**, L, 51, 55, 95; rock-salt. E. H. P., **R**, LX, 51; LXIII, 52; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 228.
- Kalade, *Merwara* (45 K/2; 25° 44' : 74° 8' 30"), magnetite. E. H. P., **R**, LVI, 30.
- Kaladgi, *Bijapur* (47 P/12; 16° 12' : 75° 30'), L. Kaladgi limestone. R. B. F., **M**, XII, 116; manganese-ore. L. L. F., **M**, XXXVII, 641.
- Kaladhungi, *Naini Tal* (53 O/7; 29° 17' : 79° 21'), iron-ore. T. W. H. H., **R**, VII, 18=Kalidoongi.
- Kalagarh, *Garhwal* (53 K/15; 29° 30' : 78° 45' 30"), concretions in Nahan sandstones. C. S. M., **M**, XXIV, 83.
- Kalagaik I., *Amherst* (95 E/10; 15° 33' : 97° 39'), building stone. L. L. F., **R**, XLVI, 243.
- Kalagwc, *N. Shan States* (93 B/10; 22° 30' 30" : 96° 30'), Silurian sandstone. T. D. L., **M**, XXXIX, pt. 2, 133.
- Kalahasti, *Chittoor* (57 O/9; 13° 45' 30" : 79° 42'), porphyritic gneiss. W. K., **M**, XVI, 131; Cheyair beds, 147=Calastry.
- Kalaia, *Singhbhum* (73 F/16; 22° 13' : 85° 50' 30"), granite. L. A. N., **R**, LXV, 517; analysis, 520.
- Kala-i-Haji, *Afghanistan* (38 F/2; 34° 40' 30" : 69° 12' 30"), gneissose granite. H. H. H., **M**, XXXIX, 46.
- Kalail (Kalhel), *Chamba* (52 D/2; 32° 44' 30" : 76° 7'), crinoid limestone. C. A. M., **R**, XIV, 306.
- Kalain, *Cachar* (83 D/9; 24° 58' : 92° 34' 30"), oil seepage. E. H. P., **M**, XL, 310.
- Kala-i-Sher, *Afghanistan* (38 J/3; 34° 26' : 70° 12'), crinoid limestone. C. L. G., **R**, XXV, 71; H. H. H., **M**, XXXIX, 14.
- Kala-i-Wakil, *Afghanistan* (33 M/12; 35° 10' 30" : 67° 40'), recumbent fold. H. H. H., **M**, XXXIX, 3.
- Kala-i-Zohak, *Afghanistan* (33 N/13; 34° 50' : 67° 58'), Red Grit series. H. H. H., **M**, XXXIX, 53.
- Kalakhu, *Sibi* (39 G/3; 29° 17' : 69° 4'), U. Siwalik unconformity. G. E. P., **R**, XXXVII, 165.
- Kalakot, *Jammu* (43 K/8; 33° 13' 30" : 74° 25'), coalfield. R. R. S., **M**, XXXII, 220 (Pl. i); XLI, 101.
- Kalakot, *Mewar* (45 H/15; 24° 29' : 73° 45'), marble. E. H. P., **R**, LXII, 33.
- Kalakun, *Persia* (25 A/1; 27° 56' : 56° 3'), Oligocene limestone. G. E. P., **M**, XLVIII, pt. 2, 50, 80.
- Kalamati (Tatanarar), *Singhbhum* (73 J/1; 22° 46' : 86° 12' 30"), wolfram. L. L. F., **R**, LIII, 304=Kalimati.
- Kalambi, *Satara* (47 G/13; 17° 49' 30" : 73° 56'), meteorite. L. L. F., **R**, XXXV, 94; J. C. B., **M**, XLIII, 214.

- Kalamoda, *S. Arcot* (58 M/6;  $11^{\circ} 42' : 79^{\circ} 25'$ ), U. Ariyalur beds. H. F. B., **M**, IV, 148.
- Kalamula, *Punch* (43 K/1;  $33^{\circ} 57' : 74^{\circ} 9'$ ), rhyolite sills. D. N. W., **M**, LI, 224; syncline in Laki shales, 297.
- Kalan, *Punch* (43 K/6;  $33^{\circ} 39' 30'' : 74^{\circ} 23'$ ), felspar-porphyry. D. N. W., **M**, LI, 310.
- Kalana, *Sirmur* (53 F/1;  $30^{\circ} 55' : 77^{\circ} 14'$ ), Blaini series, section. G. E. P., **M**, LIII, 19.
- Kalanandigarh, *Belgaum* (48 I/5;  $15^{\circ} 51' 30'' : 74^{\circ} 15'$ ), fungoid concretions in trap. R. B. F., **M**, XII, 190; laterite, 206; lithomarge, C. S. F., **M**, XLIX, 12; bauxite, 67.
- Kalanau, *Afghanistan* (29 N/1;  $34^{\circ} 59' 30'' : 63^{\circ} 7'$ ), Cretaceous beds. C. L. G., **R**, XIX, 254; XX, 21.
- Kalanderabad, *Persia* (23 M/14;  $35^{\circ} 36' : 59^{\circ} 57'$ ), Jurassic plant beds. C. L. G., **R**, XIX, 61.
- Kalaottha, *Jaipur* (54 B/5;  $26^{\circ} 58' 30'' : 76^{\circ} 25' 30''$ ), flagstone quarries. A. M. H., **R**, LIV, 358, 392.
- Kalapahar, *Gaya* (72 D/2;  $24^{\circ} 34' : 84^{\circ} 12'$ ), biotite-granite. E. V., **M**, XXXI, 100.
- Kalapahari, *Birbhum* (72 P/12;  $24^{\circ} 5' 30'' : 87^{\circ} 40' 30''$ ), iron-ore, assay. V. B., **M**, XIII, 248.
- Kalapani, *Almora* (62 B/16;  $30^{\circ} 13' : 80^{\circ} 55'$ ), reversed fault. C. L. G., **M**, XXIII, 192 (Pl. ix, fig. 8); Tropites limestone, fauna. C. D., **R**, XXXII, 219.
- Kalar Kahar, *Jhelum* (43 D/9;  $32^{\circ} 46' : 72^{\circ} 42'$ ), lake. A. B. W., **M**, XIV, 47, 184 (Pl. iv); T. D. L., **R**, XL, 45 (Pls. viii & xii, fig. 2); salt marl and brine spring. A. B. W., **M**, XIV, 182 (fig.); T. D. L., **R**, XL, 46; E. H. P., **M**, XL, 368; **R**, LXII, 150.
- Kalara, *Bhopal* (55 E/7;  $23^{\circ} 29' : 77^{\circ} 18'$ ), laterite. C. S. F., **M**, XLIX, 108.
- Kalari (Khalari), *Ranchi* (73 E/2;  $23^{\circ} 39' : 85^{\circ} 0'$ ), limestone. A. J., **M**, LII, 144.
- Kalat Zir, *Persia* (25 A/3;  $27^{\circ} 17' 30'' : 56^{\circ} 4'$ ), Hormuz series. G. E. P., **M**, XLVIII, pt. 2, 18, 39 (fig.).
- Kalat-i-Khatun, *Persia* (25 A/8;  $27^{\circ} 14' 30'' : 56^{\circ} 16'$ ), Fars series, fossils. G. E. P., **M**, XLVIII, pt. 2, 94.
- Kalaunia, *Naini Tal* (62 C/4;  $29^{\circ} 5' : 80^{\circ} 0' 30''$ ), Siwalik beds, section. C. S. M., **M**, XXIV, 162 (Pl. iii, fig. 10)=Kolonia.
- Kalavahal, *N. Kanara* (48 I/11;  $15^{\circ} 17' : 74^{\circ} 34'$ ), manganese-ore. L. L. F., **M**, XXXVII, 649.
- Kalavakonda, *Nellore* (57 N/16;  $14^{\circ} 7' : 79^{\circ} 58'$ ), Rajmahal beds. W. K., **M**, XVI, 171.
- Kalaw, *S. Shan States* (93 D/10;  $20^{\circ} 38' : 96^{\circ} 34'$ ), Purple sandstones. C. S. M., **A. R.**, 1900, 143; Jurassic plants. G. C., **R**, LV, 282; Cretaceous cephalopoda. C. S. F., **R**, LXIII, 182; Burma earthquake, 1912. J. C. B., **M**, XLII, 44.
- Kalawala Rao, *Saharanpur* (53 F/16;  $30^{\circ} 12' : 77^{\circ} 48'$ ), Siwalik fossils. R. D. O., **R**, XVII, 78 (Pl. v); G. E. P., **R**, XL, 193; XLIII, 269; lignite. R. R. S., **M**, XLI, 114.
- Kalee, *Palamau* (73 A/14;  $23^{\circ} 39' : 84^{\circ} 53'$ ), Panchet series. A. J., **M**, LII, 135.

- Kaleh Mashiz, *Persia* (24 C/9; 29° 56': 56° 36'), lake terraces. G. E. P., **M**, XLVIII, pt. 2, 112.
- Kaleh Sang, *Persia* (17 O/15; 29° 22' 30": 55° 47'), coral limestone, ? Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 62, 64.
- Kaleinaung, *Tavoy* (95 J/2; 14° 37': 98° 9'), older alluvium. J. C. B., **M**, XLIV, 196; granite, 275.
- Kalek, *Abor Hills* (82 P/4; 28° 6': 95° 10'), Gondwana beds. J. C. B., **R**, XLII, 239.
- Kalenahalli, *Mysore* (57 D/15; 12° 25' 30": 76° 46'), mica. T. H. H., **M**, XXXIV, 68.
- Kalenda, *Singhbhum* (73 F/15; 22° 29': 85° 48'), manganese-ore. L. L. F., **M**, XXXVII, 459, 628.
- Kaler (Kalaid), *Alwar* (54 A/4; 27° 9' 30": 76° 13'), lenticular trap. A. M. H., **M**, XLV, 49; dip-fault, 52.
- Kalesar, *Rewah* (64 A/14; 23° 32': 80° 50'), coal seam. T. W. H. H., **M**, XXI, 157, 241.
- Kalesur, *Sirmur* (53 F/11; 30° 21': 77° 35'), flexure in Siwaliks. H. B. M., **M**, III, pt. 2, 126.
- Kaleswar, *Karimnagar* (56 N/13; 18° 48' 30": 79° 54' 30"), Sironcha (Kamthi) sandstones. W. K., **R**, XIII, 14; **M**, XVIII, 256.
- Kalewa, *U. Chindwin* (84 I/8; 23° 12': 94° 18'), coalfield. E. J. J., **R**, XX, 171 (Pl. xi); R. R. S., **M**, XLI, 73; earthquake, 1897, time record. R. D. O., **M**, XXIX, 67; Burma earthquake, 1912. J. C. B., **M**, XLII, 59.
- Kalhalli (E), *Bellary* (57 A/8; 15° 13': 76° 24' 30"), manganese-ore. L. L. F., **M**, XXXVII, 992.
- Kalhalli (W), *Bellary* (48 N/13; 14° 45' 30": 75° 52'), hematite-quartzites, Dharwar. R. B. F., **M**, XXV, 77.
- Kalhat, *Oman* (26 N/6; 22° 40': 59° 25'), Cretaceous limestone. G. E. P., **M**, XXXIV, pt. 4, 15 (Pl. ix).
- Kalhattigiri, *Kadur* (48 O/14; 13° 31': 75° 47'), iron-ore. T. H. H., **R**, XXXIX, 116.
- Kali Jhora, *Darjeeling* (78 B/5; 26° 56': 88° 27'), coal seams, section. P. N. B., **R**, XXIV, 213.
- Kali R., *Almora* (62 B/16; 30° 6': 80° 50'), Carboniferous-Trias, sections. C. L. G., **M**, XXIII, 189 (Pl. ix, figs. 7, 8 & xxiii-xxv).
- Kaliagura, *Jeypore* (65 I/12; 19° 9': 82° 33'), Cuddapah quartzites. T. L. W., **A. R.**, 1900, 171.
- Kalian, *Thana* (47 E/4; 19° 14': 73° 7'), volcanic foci. G. T. Clark, **R**, XIII, 71.
- Kaliana, *Jind* (53 D/2; 28° 33': 76° 12'), flexible sandstone. H. B. M., **R**, VII, 30; C. A. H., **R**, XIV, 286; R. D. O., **R**, XXII, 52 (Pl. i).
- Kaliana, *Muzaffarnagar* (53 G/10; 29° 31': 77° 39'), geodetic station. R. D. O., **M**, XLII, 218, 240.
- Kalianpur, *Mewar* (45 H/16; 24° 0': 73° 45' 30"), 'magnesian' phase, Aravalli. E. H. P., **R**, LXII, 172.
- Kalianpur, *Panna* (63 D/5; 24° 54': 80° 21'), diamond workings. E. V., **R**, XXXIII, 298 (fig.).
- Kalianpur, *Tonk* (54 H/12; 24° 7': 77° 39'), geodetic station. R. D. O., **M**, XLII, 169, 245, 272.

- Kalich Kotal, *Afghanistan* (33 M/15; 35° 16': 67° 56'), recumbent fold. H. H. H., **M**, XXXIX, 3; Doab series, 62.
- Kalichapar, *Chhindwara* (55 J/8; 22° 12': 78° 26'), colliery. G. V. H., **R**, LIX, 185.
- Kalichedu, *Nellore* (57 N/11; 14° 17': 79° 44'), mica mine. C. S. F., **R**, LVII, 243.
- Ka-li-chet (Kalehkyet), *Bhamo* (92 H/7; 24° 21': 97° 26'), gneiss. J. C. B., **R**, XLIII, 183.
- Kalidoongi, *Naini Tal* (53 O/7; 29° 17': 79° 21'), iron-ore. H. B. M., **M**, III, pt. 2, 178=Kaladhungi.
- Kalighati-Gwara, *Alwar* (54 A/7; 27° 18' 30": 76° 25'), hornstone breccia. A. M. H., **M**, XLV, 58, 68.
- Kaligiri, *Nellore* (57 N/9; 14° 50': 79° 41'), ancient sea-beach. T. H. H., **M**, XXXIV, 62; aplome garnet. L. L. F., **M**, XXXVII, 1040.
- Kalikankar, *Idar* (45 H/3; 24° 28': 73° 5'), ultra-basic dyke. L. L. F., **R**, LXV, 142.
- Kalikapur, *Bankura* (73 M/2; 23° 35' 30": 87° 3' 30"), coal seam. R. R. S., **M**, XLI, 46.
- Kalimati, *Singhbhum* (73 J/1; 22° 46': 86° 12' 30"), wolfram. H. H. H., **R**, XLIX, 18; **L**, 20=Kalamati.
- Kalimpong, *Darjeeling* (78 A/8; 27° 4': 88° 28'), copper mine. E. H. P., **R**, LVII, 103; landslips. **LIX**, 42=Kalingpung.
- Kalinganahalli, *Mysore* (57 D/13; 12° 58': 76° 50'), old workings for gold. R. B. F., **R**, XXI, 55.
- Kalingpung, *Darjeeling* (78 A/8; 27° 4': 88° 28'), copper-ore. F. R. M., **M**, XI, 76=Kalimpong.
- Kalinjar, *Merwara* (45 J/8; 26° 0' 30": 74° 16' 30"), mica. T. H. H., **M**, XXXIV, 70.
- Kalinjur hill, *Cutch* (40 L/15; 24° 20': 70° 46'), syenitic rocks. A. B. W., **M**, IX, 98.
- Kalipahari, *Burdwan* (73 M/2; 23° 40': 87° 1'), coal seam. R. R. S., **M**, XLI, 47.
- Kaliphat range, *Sibi* (34 N/11; 30° 19': 67° 41'), Eocene beds. C. L. G., **R**, XXVI, 145; **XXIX**, 7.
- Kalka, *Simla* (53 B/13; 30° 50': 76° 56'), coal seam. W. K., **R**, XXV, 7; analyses. G. S. L., **R**, XXIII, 272; **XXIV**, 137; **XXV**, 56.
- Kalkapur, *Singhbhum* (73 J/6; 22° 37': 86° 17'), laterite plateaus. V. B., **M**, XVIII, 123 (Pl. ii, fig. 2).
- Kallakurti, *Bellary* (57 F/1; 14° 47': 77° 5'), green porphyritic trap. R. B. F., **M**, XXV, 170, 201.
- Kallamedu, *Trichinopoly* (58 M/4; 11° 11': 79° 8'), bone bed. C. A. Matley, **R**, LXI, 341=Cullmoad.
- Kalligudi, *Madura* (58 G/14; 9° 41': 77° 57'), garnetiferous gneiss. R. B. F., **M**, XX, 18.
- Kallikota, *Ganjam* (74 E/2; 19° 36': 85° 5'), spinel-bearing rock. F. H. S., **A**, **R**, 1900, 155.
- Kallinjur, *Banda* (63 C/8; 25° 1': 89° 29'), Semri (L. Vindhyan) beds. H. B. M., **M**, II, 20.

- Kalmeshara, *Betul* (55 J/8; 22° 2' 30": 78° 18'), Dharwar rocks. H. H. H., **R**, XLIII, 36.
- Kalmeshwar, *Nagpur* (55 K/16; 21° 14': 78° 55'), yellow ochre. L. L. F., **R**, L, 295.
- Kalna, *Burdwan* (79 A/8; 23° 13': 88° 22'), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 324.
- Kalog Bag, *Simla* (53 F/1; 30° 59' 30": 77° 9' 30"), Blaini limestone. C. A. M., **R**, X, 205.
- Kalogarhi, *Garhwal* (53 K/9; 29° 50': 78° 41'), gneissose granite. C. S. M., **R**, XX, 30, 34.
- Kaloian, *Rawalpindi* (43 G/10; 33° 40': 73° 32' 30"), Kamlial beds. D. N. W., **M**, LI, 354.
- Kalol, *Idar* (45 H/4; 24° 1': 73° 8' 30"), biotite-gneiss, C. S. M., **M**, XLIV, 29; Delhi quartzite, 80.
- Kalonta, *Tavoy* (95 J/7; 14° 17': 98° 17'), tin and wolfram. A. W. G. B., **R**, XLIII, 68; J. C. B., **M**, XLIV, 217, 277; **R**, L, 109.
- Kalpata, *Kalpeta*, *Wynaad* (58 A/2; 11° 36' 30": 76° 7'), biotite-granite. H. H. H., **A**, **R**, 1900, 56; **M**, XXXII, pt. 2, 17.
- Kalra, *Jhelum* (43 G/8; 33° 2': 73° 23' 30"), brine spring. A. B. W., **M**, XIV, 47, 122; E. H. P., **R**, LXIII, 50.
- Kalroyenmullay, *S. Arcot* (58 I/13; 11° 56': 78° 48'), physical features. W. K., **M**, IV, 236; iron-ore beds, 293.
- Kalsi, *Dehra Dun* (53 F/14; 30° 32': 77° 51'), Blaini conglomerate. H. B. M., **M**, III, pt. 2, 66; littoral beds, Mandhali series. R. D. O., **R**, XVI, 196; Dagshai beds. G. E. P., **M**, LIII, 50.
- Kalu, *Afghanistan* (38 B/2; 34° 41': 68° 0'), Lower Palæozoic rocks. H. H. H., **M**, XXXIX, 23, 71.
- Kalu R., *Garo Hills* (78 K/2; 25° 33': 90° 10'), nummulitic limestone. H. B. M., **M**, VII, 166; Cretaceous beds, 180.
- Kalumur hill, *Jubbulpore* (55 M/11; 23° 29': 79° 44'), highest point, Vindhyan plateau. F. R. M., **M**, VII, 20, 24.
- Kaluth, *Kulu* (52 H/8; 32° 1': 77° 23'), hot springs. T. O., **M**, XIX, 121.
- Kaluvaya, *Nellore* (57 N/6; 14° 31': 79° 25'), Cuddapah beds. W. K., **M**, XVI, 153.
- Kalva Ranganbetta, *Shimoga* (48 N/12; 14° 9': 75° 31'), Dharwar quartzite and conglomerate. R. B. F., **R**, XV, 196.
- Kalyana, *Gulbarga* (56 C/13; 17° 53': 76° 57'), manganese-ore. L. L. F., **M**, XXXVII, 990.
- Kam Shilman, *Khyber* (38 N/4; 34° 9': 71° 15'), schists and quartz veins. C. L. G., **R**, XXV, 91.
- Kama, *Cheduba I.* (85 F/9; 18° 48': 93° 32'), oil wells. E. H. P., **M**, XL, 194.
- Kama, *Thayetmyo* (85 M/4; 19° 2': 95° 6'), Miocene clays. W. T., **M**, X, 273; E. V., **R**, LI, 231, 236 (fig.); oil seepage. M. S., **R**, XXXVIII, 270; E. H. P., **M**, XI, 176.
- Kamah, *Sandoway* (85 I/4; 19° 8': 94° 10' 30"), Cretaceous limestone. W. T., **M**, X, 313.
- Kamai, *Singbhum* (73 F/2; 22° 36' 30": 85° 8'), hematite-quartzite. J. A. D., **M**, LIV, 26; phylites, 65, 88; sheared epidiorite, 79, 80.

- Kamaing, *Myitkyina* (92 C/10; 25° 31' : 96° 43'), Burma earthquake, 1912. J. C. B., **M**, XLII, 57; inclined pebble beds, sub-recent. E. H. P., **R**, LXIII, 100.
- Kamalapur, *Bellary* (57 A/7; 15° 18' : 76° 28'), iron smelting. R. B. F., **R**, XIX, 110; **M**, XXV, 192.
- Kamalpur, *Attock* (43 C/10; 33° 41' : 72° 41'), *Ostrea*, Triassic. A. B. W., **R**, X, 128.
- Kamalpur, *Jaipur* (54 B/13; 26° 48' : 76° 46'), Aravalli schists and pegmatites. A. M. H., **R**, XLVIII, 185.
- Kamalpur, *Kamrup* (78 N/11; 26° 21' : 91° 40'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 334.
- Kaman, *Bharatpur* (54 E/6; 27° 39' : 77° 16'), Alwar series. A. M. H., **M**, XLV, 38.
- Kamana, *Adilabad* (56 M/7; 19° 27' : 79° 20'), Kurnool or Bhima limestone. W. K., **R**, X, 63.
- Kamapying, *Mergui* (95 P/3; 12° 25' : 99° 6'), coalfield. P. N. B., **R**, XXVI, 148, 157 (Pls. xx, xxi); R. R. S., **M**, XLI, 62=Kawmapyin.
- Kamaram, *Warangal* (65 B/8; 18° 15' : 80° 18' 30'), coalfield. W. K., **R**, V, 50; R. R. S., **M**, XLI, 90=Kamawaram.
- Kamarhatu, *Singhbhum* (73 F/14; 22° 31' 30" : 85° 48'), manganese-ore. L. L. F., **M**, XXXVII, 623.
- Kamarij, *Persia* (10 O/6; 29° 36' : 51° 28' 30'), Fars series. G. E. P., **M**, XXXIV, pt. 4, 66 (Pl. i); salt, 146, 160.
- Kamasamudram (Kamsandra), *Kolar* (57 L/1; 12° 53' : 78° 12'), boring for coal. E. H. P., **R**, LIX, 21.
- Kamataru, *Sandur* (57 A/12; 15° 1' : 76° 37'), pseudo-manganite. L. L. F., **M**, XXXVII, 84; manganese-ore, 1027=Kammataruvu.
- Kamatki Ghat, *Satara* (47 J/4; 18° 0' 30" : 74° 1'), volcanic ash. W. T. B., **M**, VI, 142.
- Kamaunghla, *Tavoy* (95 J/8; 14° 11' : 98° 16'), topaz. J. C. B., **M**, XLIV, 223.
- Kamaunghwe R., *Tavoy* (95 J/7; 14° 24' : 98° 26'), Tertiary beds. J. C. B., **M**, XLIV, 194.
- Kamawaram, *Warangul* (65 B/8; 18° 15' : 80° 18' 30'), coalfield. W. K., **M**, XVIII, 184=Kamaram.
- Kamawkala gorge, *Amherst* (94 K/8; 17° 3' : 98° 21'), U. Triassic fossils. L. L. F., **R**, LIV, 54; G. C., **R**, LV, 281; J. W. G. and others, **R**, LXIII, 156-181 (figs. & Pls. i-iv).
- Kambak Droog, *Chingleput* (57 O/14; 13° 34' 30" : 79° 52'), Cheyair quartzites. W. K., **M**, XVI, 145, 146=Cambauk Droog.
- Kambli, *Punch* (43 G/10; 33° 38' : 73° 44'), L. Siwalik folding. D. N. W., **M**, LI, 328.
- Kambosana, *Idar* (46 A/13; 23° 58' : 72° 55' 30'), quartz veins. C. S. M., **M**, XLIV, 130.
- Kamdabedi (Kumdabari), *Mayurbhanj* (73 K/1; 21° 54' : 86° 7'), iron-ore. P. N. B., **R**, XXXI, 169.
- Kamedaug, *Minbu* (84 L/5; 20° 49' : 94° 24'), *Batissa birmanica*. E. V., **R**, LI, 265.
- Kamerara, *Singhbhum* (73 J/11; 22° 15' : 86° 40'), alluvial gold. V. B., **M**, XVIII, 142.



- Kamet, *Garhwal* (53 N/9 ; 30° 55' : 79° 36'), crystalline rocks. C. L. G., **M**, XXIII, 43, 90, 194.
- Kamlial, *Attock* (43 C/11 ; 33° 17' 30" : 72° 35'), basal beds, Siwalik. G. E. P., **R**, XLVIII, 99 ; E. S. P., **R**, XLIX, 154 (Pl. iv) ; E. H. P., **M**, XL, 404.
- Kammataravu, *Sandur* (57 A/12 ; 15° 1' : 76° 37'), hematite bed. R. B. F., **M**, XXV, 121=Kamataru.
- Kampa dzong, *Tibet* (77 D/11 ; 28° 17' : 88° 32'), hot springs. H. H. H., **M**, XXXVI, 137 : Jurassic beds, 153-157 ; Cretaceous, 161-170 ; Tertiary, 170-176 (Pls. i-iii & viii-xii)=Khamba dzong.
- Kamparab, *Tibet* (78 E/2 ; 27° 39' : 89° 5'), Dothak series. H. H. H., **M**, XXXVI, 142.
- Kampa-partsi, *Tibet* (77 K/11 ; 29° 17' : 90° 37'), dacite pebbles. H. H. H., **M**, XXXVI, 178, 184.
- Kampat, *Jaintia Hills* (83 C/11 ; 25° 21' : 92° 30'), Cretaceous-U. Tertiary, section. T. D. L., **R**, XVI, 201.
- Kampli, *Bellary* (57 A/11 ; 15° 24' : 76° 36'), Dharwar beds, granite. R. B. F., **R**, XXII, 32 ; **M**, XXV, 148, 155.
- Kamra hills, *Bilaspur* (64 J/16 ; 22° 11' : 82° 51'), Vindhyan beds. W. K., **R**, XVIII, 179.
- Kamprora, *Singbhum* (73 F/6 ; 22° 43' : 85° 19' 30"), faulting in epidiorites. J. A. D., **M**, LIV, 23, 79, 88 ; tuffs, 73.
- Kamsagar, *Shimoga* (48 N/16 ; 14° 12' : 75° 50' 30"), meteorite. J. C. B., **R**, XLV, 223 (Pls. xvi, xvii) ; **M**, XLIII, 214.
- Kamta, *Rewah* (64 E/11 ; 23° 27' : 81° 44'), coal seam. T. W. H. H., **M**, XXI, 241.
- Kamthi, *Nagpur* (55 O/4 ; 21° 14' : 79° 11'), Kamthi sandstones. W. T. B., **M**, IX, 309.
- Kamyaing, *Tavoy* (95 K/6 ; 13° 39' : 98° 22'), tourmaline-pegmatite. J. C. B., **M**, XLIV, 191.
- Kan, *Chagai* (34 C/12 ; 29° 7' : 64° 37' 30"), Cretaceous beds. E. V., **M**, XXXI, 199, 237 (Pl. viii, fig. 7).
- Kan Berar, *Las Bela* (35 K/3 ; 25° 28' 30" : 66° 0' 30"), sulphur and salt. E. V., **R**, XXXVIII, 208 ; Makran series, mollusca. **M**, L, 411, 427.
- Kan Tangh, *Cheduba I.* (85 F/10 ; 18° 42' : 93° 44'), oil wells. E. H. P., **M**, XL, 195.
- Kanadara, *Idar* (46 E/5 ; 23° 51' : 73° 17'), Phyllite series. C. S. M., **M**, XLIV, 92, 112.
- Kanai, *Rewah* (64 I/3 ; 23° 19' : 82° 10'), coal seam. T. W. H. H., **M**, XXI, 195, 231.
- Kanakhera, *Banda* (83 C/5 ; 25° 51' 30" : 80° 25' 30"), geodetic station. R. D. O., **M**, XLII, 213.
- Kanal, *Tehri* (53 J/1 ; 30° 51' 30" : 78° 11'), Deoban limestone. C. S. M., **R**, XX, 29.
- Kanar, *Dhar* (55 B/3 ; 22° 28' : 76° 7'), manganiferous breccia. L. L. F., **M**, XXXVII, 673.
- Kanaridha, *Balaghat* (64 C/9 ; 21° 58' : 80° 36'), manganese-ore. L. L. F., **M**, XXXVII, 732.
- Kanas, *Jhabua* (46 J/10 ; 22° 31' : 74° 33'), Cretaceous beds. W. T. B., **M**, VI, 209.
- Kanhai-pal, *Mewar* (46 E/5 ; 23° 54' : 73° 29'), dolerite. L. L. F., **R**, LXV, 143.

- Kanbalu, *Shwebo* (84 M/12; 23° 12' : 95° 31'), Irrawadian beds. L. L. F., R, LXV, 94.
- Kanbauk, *Tavoy* (95 J/2; 14° 35' : 98° 1' 30"), cassiterite. J. C. B., M, XLIV, 216; accessory minerals in wolfram veins, 218-223; wolfram mine, 264, 312, 318 (Pl. xxii); native bismuth. A. M. H., R, LIII, 81.
- Kanbaung, *Ramri I.* (85 E/16; 19° 0' : 93° 46'), oil seepage. E. H. P., M, XL, 193.
- Kanbe, *Myaungmya* (85 P/3; 16° 28' : 95° 3'), Pegu earthquake, 1930. J. C. B., R, LXV, 240.
- Kanbyu, *Shwebo* (84 M/8; 23° 13' : 95° 22'), Irrawadian beds. L. L. F., R, LXV, 94.
- Kanchanpalli, *Nalgonda* (56 K/15; 17° 26' 30" : 79° 0'), diorite dyke. R. B. F., R, XVIII, 30.
- Kanchanpur, *Cachar* (83 D/10; 24° 39' : 92° 32' 30"), Miocene fossils. E. H. P., R, LXI, 20, 121; LXII, 22.
- Kanchanpur, *Rewah* (64 E/7; 23° 15' : 81° 28'), coal seam. T. W. H. H., M, XXI, 241.
- Kanchri, *Punch* (43 G/9; 33° 49' : 73° 39'), *Aceratherium* teeth. D. N. W., M, LI, 331.
- Kanchria, *Kishangarh* (45 J/14; 26° 31' 30" : 74° 53'), titaniferous iron-ore. E. V., R, XXXI, 108.
- Kand R., *Sind* (35 O/6; 25° 35' : 67° 20'), Nari-Gaj beds, section. W. T. B., M, XVII, 177 (Pl. vi, fig. 3).
- Kanda, *Dehra Dun* (53 F/13; 30° 54' : 77° 51'), traps and conglomerates, Jaunsar series. R. D. O., R, XVI, 193.
- Kandaghat, *Simla* (53 F/1; 30° 58' : 77° 6'), Infra-Krol beds. G. E. P., M, LIII, 11=Kundah Ghat.
- Kandahar, *Afghanistan* (34 E/10; 31° 37' : 65° 42'), hippuritic limestone. C. L. G., M, XVIII, 41 (Pl. vi); trap dykes, 52; gold mine, 56 (frontispiece).
- Kandalbingo, *Karachi* (40 C/2; 25° 33' : 68° 8'), Gaj series, mollusca. E. V., M, L, 445, 454.
- Kandali, *Coimbatore* (57 H/8; 12° 4' : 77° 26'), Dharwar band. R. B. F., R, XXI, 55.
- Kandara (Kondhala), *Chanda* (55 L/15; 20° 18' 30" : 78° 59'), Vindhyan limestone. T. W. H. H., M, XIII, 14, 113.
- Kandarbal, *Kashmir* (43 J/11; 34° 15' 30" : 74° 41'), limestone quarries. R. L., M, XXII, 140, 340.
- Kandarpur, *Puri* (73 H/11; 20° 27' : 85° 39'), boring site for coal. V. B., R, X, 68.
- Kandaung, *Tavoy* (95 F/14; 14° 40' 30" : 97° 53'), basic dykes. J. C. B., M, XLIV, 189.
- Kandawtha, *Shwebo* (84 N/1; 22° 48' : 95° 1'), alluvial gold. E. H. P., R, LXIII, 36.
- Kandajora, *Singhbhum* (73 F/5; 22° 46' : 85° 24'), inclusions in granite. J. A. D., M, LIV, 106.
- Kandela, *Banda* (63 G/4; 25° 8' : 81° 14'), hot spring. T. O., M, XIX, 137.
- Kandelak-Garuki, *Las Bela* (35 C/7; 25° 19' : 64° 24'), Makran series, mollusca. E. V., M, L, 209, 251.
- Kandeon, *Singhbhum* (73 F/5; 22° 46' : 85° 23'), garnet. J. A. D., M, LIV, 45; metamorphosed epidiorite, 89; granite, 102; L. A. N., R, LXV, 515.

- Kanderi, *Makran* (31 O/7; 25° 23': 63° 20'), Makran series, mollusca. E. V., **M**, L, 39, 57, 73, etc.
- Kandhar, Kandhi, *Larkhana* (35 N/8; 26° 2': 67° 28'), hot spring. T. O., **M**, XIX, 112; W. T. B., **M**, XVII, 114.
- Kandi, *Murshidabad* (79 A/1; 23° 57': 88° 2'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Kandi Konda, *Warangal* (56 O/15; 17° 28' 30": 79° 58'), diorite dykes. R. B. F., **R**, XVIII, 29.
- Kandia, *Surguja* (64 M/6; 23° 40': 83° 23' 30"), conglomerate, sub-metamorphic. C. L. G., **M**, XV, 138; Talchir boulder bed, 143 (Pls. ii, fig. 2 & iv, fig. 3).
- Kandiappar, *Goa* (48 I/3; 15° 26': 74° 2'), manganese-ore. L. L. F., **M**, XXXVII, 988.
- Kandni, *Kishtwar* (43 O/16; 33° 12' 30": 75° 48'), kyanite in gneiss. R. D. O., **R**, XXI, 159.
- Kando, *Sirmur* (53 F/6; 30° 37' 30": 77° 27'), overfold, Krol series. L. L. F., **R**, LXV, 132.
- Kandra, *Nellore* (57 N/16; 14° 3': 79° 47' 30"), Cuddapah beds. W. K., **M**, XVI, 148; trap dykes, 168.
- Kandri, *Nagpur* (55 O/7; 21° 25': 79° 16' 30"), hausmannite. L. L. F., **M**, XXXVII, 41; psilomelane, 112, 114; rhodonite, 141; dannemorite?, 147; halite, 212; opal, 214; manganiferous gneiss, 344; pisolitic ore, 391; manganese-ore, 294, 318, 548, 862 (figs. & Pls. xxvi-xxxii); salt associated with manganese-ore. **R**, XXXI, 237.
- Kandukur, *Nellore* (57 M/16; 15° 13': 79° 54'), Rajmahal beds. R. B. F., **M**, XVI, 50, 56; lateritic rocks, 87.
- Kandusa (Kandasara), *Talcher* (73 G/4; 21° 4': 85° 5' 30"), Talchir boulder bed. W. T. B., **M**, I, 48 (fig.).
- Kandyamallur, *S. Arcot* (58 M/10; 11° 31' 30": 79° 39'), marine shells in alluvium. W. K., **M**, IV, 254=Kundyamalur.
- Kanet, *Attock* (43 C/3; 33° 20': 72° 13' 30"), fault. E. H. P., **R**, LXIII, 141.
- Kangan, *Kashmir* (43 J/15; 34° 16': 74° 54'), gneissose granite. R. L., **M**, XXII, 230.
- Kangan, *Naga Hills* (83 J/13; 26° 45': 94° 50'), coal seam. H. B. M., **M**, IV, 404=Kongan.
- Kangayam, *Coimbatore* (58 E/12; 11° 0': 77° 34'), aquamarine. H. F. B., **M**, I, 229; elæolite-bearing rocks. C. S. M., A. **R**, 1898, 20; mica. T. H. H., **M**, XXXIV, 22 (fig.); zircon. **R**, XXXIX, 271; chrysoberyl. L. L. F., **R**, XLVI, 270.
- Kangchenjha, *Sikkim* (78 A/9; 27° 59': 88° 39'), granite. H. H. H., **M**, XXXVI, 129.
- Kangi La, *Ladakh* (52 B/12; 34° 7': 76° 31'), Triassic beds. R. L., **R**, XIII, 46; **M**, XXII, 177.
- Kangiran, *Punjab* (43 K/1; 33° 53' 30": 74° 9' 30"), Eocene foraminifera. D. N. W., **M**, LI, 260.
- Kangma, *Tibet* (77 H/10; 28° 33': 89° 41'), Jurassic fossils. H. H. H., **R**, XXXII, 166=Khangma.
- Kangra, *Punjab* (52 D/8; 32° 5' 30": 76° 15'), Siwalik beds, plateau. H. B. M., **M**, III, pt. 2, 146.

- Kangra Bhawan, *Kangra* (52 D/8; 32° 6' 30" : 76° 15' 30"), earthquake, 1905. C. S. M., **R**, XXXII, 276 (fig.); **M**, XXXVIII, 32 (frontispiece & Pl. i).
- Kangrawala hill, *Shahpur* (38 P/14; 32° 31' : 71° 57'), inverted fold in limestone. A. B. W., **M**, XIV, 239 (Pl. xxiii, fig. 44).
- Kangun, *Persian Gulf* (18 A/1; 27° 50' : 52° 3'), gypsum. G. E. P., **M**, XXXIV, pt. 4, 158.
- Kangyi, *Mandalay* (93 B/4; 22° 7' : 96° 11' 30'), granite. G. E. G., **A. R.**, 1898, 54.
- Kanhan R., *Chhindwara* (55 J/12; 22° 6' : 78° 34'), coalfield. E. J. J., **M**, XXIV, 37 (Pl. i); R. R. S., **M**, XLI, 94.
- Kanhech, *Sirmur* (53 F/5; 30° 49' 30" : 77° 16'), Blaini series. G. E. P., **M**, LIII, 26 (fig.).
- Kanhechi, *Simla* (53 E/4; 31° 1' : 77° 9'), carbonaceous limestone. G. E. P., **M**, LIII, 107.
- Kanheri, *Bhandura* (64 C/4; 21° 1' 30" : 80° 7'), steatite. F. R. M., **R**, XXII, 64.
- Kanheri, *Bombay* (47 A/16; 19° 12' : 72° 54' 30'), volcanic ash. W. T. B., **M**, VI, 143.
- Kanhla, *Thayetmyo* (85 M/2; 19° 34' : 95° 11' 30"), Oligocene Echinoidea. E. V., **R**, LIV, 413.
- Kanhwara, *Jubbulpore* (64 A/5; 23° 55' : 80° 26' 30"), iron-ore. F. R. M., **R**, XVI, 108; L. L. F., **R**, L, 284.
- Kani, *Afghanistan* (34 G/2; 29° 36' : 65° 4'), andesite. T. H. H., **R**, XXX, 128.
- Kani, *L. Chindwin* (84 J/15; 22° 26' : 94° 51'), gold and platinum reported. H. S. B., **R**, XLIII, 250; Burma earthquakes, 1912. J. C. B., **M**, XLII, 60, 120; fossil tree trunks. E. H. P., **R**, LXI, 104=Kannee.
- Kani Qadir, *Iraq* (2 F/1; 34° 59' : 45° 6'), oil seepages. E. H. P., **M**, XLVIII, 60.
- Kanial, *Jhelum* (43 H/5; 32° 49' : 73° 25'), faulted anticline. L. L. F., **R**, LXV, 119.
- Kanigiri, *Nellore* (57 M/11; 15° 24' : 79° 31'), granite gneiss. R. B. F., **M**, XVI, 32, 33; travertine, 90.
- Kaniguram, *Waziristan* (38 H/14; 32° 31' : 69° 47'), glacial gravels (?). M. S., **R**, LIV, 93, 97.
- Kanivenhalli, *Salem* (57 L/3; 12° 19' : 78° 1'), enstatite-limburgite, petrology. T. H. H., **R**, XXX, 19 (note).
- Kaniyambadi, *N. Arcot* (57 P/1; 12° 48' 30" : 79° 8'), pyrites. E. H. P., **R**, LXII, 61.
- Kanjamalai, *Salem* (58 I/2; 11° 37' : 78° 4'), iron-ore. T. H. H., **R**, XXV, 141; assays. **M**, XXX, 113; H. H. H., **R**, LI, 14; tscheffkinitite. F. R. M., **R**, XXV, 125; chromite and magnesite. C. S. M., **R**, XXIX, 37=Kunjamullay.
- Kanjarkot, *Cutch* (40 H/3; 24° 17' : 69° 9'), flooded area, earthquake, 1819. R. D. O., **M**, XLVI, 85, 101.
- Kanjiganagutti (Kenchammana Gadi), *Shimoga* (48 O/13; 13° 49' : 75° 47' 30"), manganese-ore. L. L. F., **M**, XXXVII, 1149.
- Kanjikovil, *Coimbatore* (58 E/11; 11° 22' : 77° 36'), kyanite. C. S. M., **R**, XXIX, 40.

- Kankappa gudda, Bellary (57 B/1 ; 14° 54' 30" : 76° 1'), granite gneiss. R. B. F., **M**, XXV, 38 ; granular quartz-rock, 39.
- Kankeria, Narsinghgarh (55 A/5 ; 23° 51' 30" : 76° 29'), *Bullinus (Physa) prinsepii*. N. A., **R**, LI, 59 (Pl v).
- Kan-kou, Yunnan (92 P/6 ; 24° 32' : 99° 29' 30"), dolomitic limestone. J. C. B., **R**, XLVIII, 227 ; igneous rock, amygdaloidal, 262.
- Kankra, Bundi (54 C/6 ; 25° 39' 30" : 76° 16'), U. Vindhyan, section. A. L. C., **R**, LX, 181 (fig.).
- Kankria, Bhopal (55 A/5 ; 23° 51' 30" : 76° 29'), Intertrappean fossils. T. H. H., **R**, XXXV, 56.
- Kankroli, Mewar (45 G/16 ; 25° 4' : 73° 54'), marble. C. A. H., **R**, XIV, 282.
- Kankwari, Ahwar (54 A/7 ; 27° 19' 30" : 76° 22'), amphibolite. A. M. H., **M**, XLV, 44, 49.
- Kad-jan-ssu, Yunnan (92 K/12 ; 25° 1' : 98° 38'), andesite, petrology. R. C. B., **R**, XLIII, 209.
- Kanlun, N. Shan States (93 J/3 ; 22° 20' 30" : 98° 12'), graptolite beds. T. D. L., **M**, XXXIX, pt. 2, 129.
- Kannabahara, Rewah (64 E/7 ; 23° 19' : 81° 19'), coal seam. T. W. H. H., **M**, XXI, 179, 241.
- Kannamangulam, N. Arcot (57 P/1 ; 12° 45' : 79° 9' 30"), garnets. E. H. P., **R**, LXI, 53, 123.
- Kannanore, Trichinopoly (58 I/16 ; 11° 4' : 78° 58'), Ariyalur fossils. H. F. B., **M**, IV, 132.
- Kannea (Kanniyai), Ceylon (67 H/2\* ; 8° 36' : 81° 10' 30"), hot springs. T. O., **M**, XIX, 154.
- Kanee, L. Chindwin (84 J/15 ; 22° 26' : 94° 51'), platinum. W. T., **M**, X, 192 = Kani.
- Kannevihalli, Sandur (57 A/8 ; 15° 2' 30" : 76° 30'), manganese-ore. R. B. F., **M**, XXV, 195 ; L. L. F., **M**, XXXVII, 1002, 1026 ; analyses. G. S. L., **R**, XXIII, 89, 210.
- Kan-ngai, Yunnan (92 L/1 ; 24° 45' : 98° 4' 30"), lacustrine deposits. J. C. B., **R**, XLIII, 200 (Pl. xv, fig. 2).
- Kannikalmatti, Kadur, manganese-ore, see Hadikere.
- Kanoh, Simla (53 F/1 ; 30° 59' 30" : 77° 7'), Simla slates. G. E. P., **M**, LIII, 82.
- Kanoj, Tonk (45 L/9 ; 24° 45' 30" : 74° 32'), L. Vindhyan outlier. C. A. H. **R**, XIV, 292.
- Kanori, Amjhera (46 J/15 ; 22° 19' : 74° 55'), *Placentiaceras mintoi*. E. V., **R**, XXXVI, 125 (Pl. xiv).
- Kanpur, Ali-Rajpur (46 J/8 ; 22° 14' : 74° 25'), trachytic rock. P. N. B., **M**, XXI, 10.
- Kanrut (Nongkynrut), Khasi Hills (78 O/10 ; 25° 42' : 91° 31'), earthquake, 1897, lakelet. R. D. O., **M**, XXIX, 157.
- Kansar, Sirmur (53 F/6 ; 30° 33' 30" : 77° 29'), Krol overthrust. L. L. F., **R**, LXV, 132.

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\*Sheet D/23 Ceylon Topographical Survey, 1 in. = 1 mile.

- Kansi, *Myitkyina* (92 C/5;  $25^{\circ} 47' : 96^{\circ} 23'$ ), jadeite. E. H. P., **R**, LXII, 56; LXIII, 40; Tertiary boulder beds, 100.
- Kantagaria, *Burdwan* (73 M/2;  $23^{\circ} 39' : 87^{\circ} 6' 30''$ ), coal seam. W. T. B., **M**, III, 89.
- Kantapahari, *Burdwan* (73 I/13;  $23^{\circ} 48' 30'' : 86^{\circ} 59' 30''$ ), basal beds, Barakar stage. E. H. P., **R**, LXII, 141.
- Kan-tien, *Yunnan* (101 C/5;  $25^{\circ} 46' : 100^{\circ} 32'$ ), coal seams. J. C. B., **M**, XLVII, 68; **R**, LIV, 81.
- Kantikapili, *Vizagapatam* (65 O/1;  $17^{\circ} 56' 30'' : 83^{\circ} 13'$ ), pyroxene. L. L. F., **M**, XXXVII, 137; rhodonite, 141; spandite, 180; manganese-ore, 1115.
- Kantikna, *Mayurbhanj* (73 K/1;  $21^{\circ} 53' : 86^{\circ} 7'$ ), iron-ore. P. N. B., **R**, XXXI, 169.
- Kan-ting-kai, *Yunnan* (92 K/15;  $25^{\circ} 22' : 98^{\circ} 53'$ ), metamorphosed limestone. J. C. B., **R**, XLVII, 249.
- Kantrori, *Kathiawar* (41 N/5;  $22^{\circ} 46' : 71^{\circ} 20'$ ), iron-ore. F. F., **M**, XXI, 81, 133.
- Kanuahi, *Rewah* (64 E/7;  $23^{\circ} 23' : 81^{\circ} 29' 30''$ ), coal seam. T. W. H. H., **R**, XIV, 318.
- Kanugaon, *Bhopal* (55 E/7;  $23^{\circ} 15' 30'' : 77^{\circ} 22'$ ), manganese-ore. L. L. F., **M**, XXXVII, 367, 672.
- Kanugaon, *Sibsagar* (83 M/4;  $27^{\circ} 3' : 95^{\circ} 9' 30''$ ), coal seams. R. R. S., **R**, XXXIV, 215; E. H. P., **M**, XL, 287.
- Kanwahi (E.), *Rewah* (64 I/3;  $23^{\circ} 24' 30'' : 82^{\circ} 1'$ ), coal seams. T. W. H. H., **M**, XXI, 241.
- Kanwahi (W.), *Rewah* (64 E/7;  $23^{\circ} 23' : 81^{\circ} 29' 30''$ ), coal seams. T. W. H. H., **M**, XXI, 241.
- Kanyaluka, *Singhbhum* (73 J/11;  $22^{\circ} 29' : 86^{\circ} 31'$ ), kyanite. J. A. D., **M**, LII, 240 (Pl. xxii, fig. 3).
- Kanyara, *Kangra* (52 D/8;  $32^{\circ} 12' 30'' : 76^{\circ} 22'$ ), slate quarries. T. H. H., **R**, XXXIX, 271.
- Kanyat, *Punch* (43 G/14;  $33^{\circ} 44' 30'' : 73^{\circ} 47' 30''$ ), travertine. D. N. W., **M**, LI, 366.
- Kanzalwan, *Kashmir* (43 J/10;  $34^{\circ} 38' : 74^{\circ} 42'$ ), Panjal traps and slates. R. L., **R**, XII, 24.
- Kaodoli, *Gwalior* (54 F/7;  $26^{\circ} 17' : 77^{\circ} 28'$ ), L. Bhandar beds, section. F. R. M., **M**, VII, 90.
- Kao-fung-shao, *Yunnan* (101 G/8;  $25^{\circ} 11' : 101^{\circ} 19'$ ), Triassic beds (?). J. C. B., **R**, LIV, 84.
- Kaola, *N. Kanara* (48 I/12;  $15^{\circ} 6' : 74^{\circ} 37' 30''$ ), manganese-ore. E. H. P., **R**, LX, 47.
- Kaolai, *Ajmer* (45 J/10;  $26^{\circ} 36' : 74^{\circ} 35'$ ), asbestos. E. H. P., **R**, LVIII, 23.
- Kaonla, *Jodhpur* (45 G/3;  $25^{\circ} 29' 30'' : 73^{\circ} 2'$ ), granite domes. T. D. L., **M**, XXXV, 69 (Pls. vi, vii).
- Kaorabairi hill, *Dhar* (55 B/7;  $22^{\circ} 21' : 76^{\circ} 17'$ ), columnar basalt. P. N. B., **M**, XXI, 18.
- Kaoronti, *Rewah* (63 L/12;  $24^{\circ} 1' 30'' : 82^{\circ} 41'$ ), metamorphosed limestone. J. A. D., **M**, LII, 189.

- Kaosa (Kowus), *Kashmir* (43 J/12; 34° 6' 30" : 74° 39'), Kashmir earthquake, 1885. E. J. J., **R**, XVIII, 223.
- Kaoshan, *Afghanistan* (38 E/4; 35° 5' : 69° 3'), hematite bed, Hajigak series. H. H. H., **M**, XXXIX, 25, 48.
- Kaoshandas, *Afghanistan* (38 B/1; 34° 52' : 68° 2' 30"), Red Grit and Saighan series. H. H. H., **M**, XXXIX, 52.
- Kapadvanj, *Kaira* (46 E/4; 23° 1' 30" : 73° 4'), bauxite. C. S. F., **R**, LVII, 323.
- Kapalna, *Almora* (53 O/10; 29° 43' : 79° 31'), old lake basin. R. D. O., **R**, XVI, 163.
- Kapargadi Ghat, *Singhbhum* (73 J/6; 22° 39' : 86° 20'), gold nugget. V. B., **M**, XVIII, 142=Kappergudee Ghat.
- Kaparia, *Korea* (64 I/3; 23° 23' 30" : 82° 10'), coal seams. T. W. H. H., **M**, XXI, 196, 241.
- Kapasia, *Dacca* (78 L/12; 24° 7' : 90° 32'), earthquake, 1897, subsidence. R. D. O., **M**, XXIX, 329.
- Kapdup Hka, *Hukawng* (92 F/3; 26° 23' : 97° 2'), alluvial gold. L. L. F., **R**, LXV, 49.
- Kapfoorassir, *Cutch* (41 A/10; 23° 42' 30" : 68° 38'), Nummulitic beds, fossils. A. B. W., **M**, IX, 245.
- Kapgal hill, *Bellary* (57 A/16; 15° 11' : 76° 58'), granite traversed by dyke. R. B. F., **M**, XXV, 59, 163; alleged palæolithic settlement, 209.
- Kapkot, *Almora* (53 O/13; 29° 56' 30" : 79° 54'), graphite. T. W. H. H., **R**, XI, 183.
- Kapoli, *Belgaum* (48 I/6; 15° 38' 30" : 74° 23'), kaolin. E. H. P., **R**, LIII, 18.
- Kappa, *Chhindwara* (55 N/3; 22° 26' : 79° 10'), calcite in Deccan trap. J. G. M., **M**, II, 220.
- Kappatgode hill, Kappat Gudda, *Sangli* (48 M/12; 15° 10' : 75° 40'), Dharwar schists. R. B. F., **R**, VII, 134; manganese-ore. L. L. F., **M**, XXXVII, 642.
- Kappergudee Ghat, *Singhbhum* (73 J/6; 22° 39' : 86° 20'), auriferous quartz. V. B., **R**, II, 11=Kapargadi Ghat.
- Kapra, *Karimnagar* (56 N/11; 18° 30' : 79° 45'), L. Vindhyan sandstones. W. K., **M**, XVIII, 231.
- Kapreta, *Idar* (46 E/2; 23° 43' : 73° 2'), Delhi quartzite. C. S. M., **M**, XLIV, 84.
- Kapuli, *Jodhpur* (40 O/5; 25° 54' 30" : 71° 22'), fullers' earth. W. T. B., **R**, X, 11; T. D. L., **M**, XXXV, 33.
- Kara Kotal, *Afghanistan* (33 M/15; 35° 29' : 67° 48'), diabase intrusive in Cretaceous. H. H. H., **M**, XXXIX, 70.
- Karachi, *Sind* (35 P/1; 24° 51' : 67° 2'), Gaj-Manchhar beds. W. T. B., **M**, XVII, 185; Gaj series, mollusca. E. V., **M**, L, 40, 74, 114, etc.
- Karada Badasala Kativi, *Sandur* (57 A/12; 15° 0' : 76° 37'), manganese-ore. L. L. F., **M**, XXXVII, 1031.
- Karadihalli, *Hassan* (57 C/7; 13° 29' : 76° 16'), Dharwar outlier, gold. R. B. F., **R**, XXII, 17.
- Karadikuttam, *Madura* (58 F/7; 10° 27' : 77° 26'), molybdenite. H. H. H., **R**, XLVIII, 14.

- Karadung lake, *Russian Turkestan* (42 K/3; 37° 28' : 74° 2'), calcareous beds. H. H. H., **R**, XLV, 311.
- Karahi, *Loralai* (39 C/9; 29° 58' : 68° 43'), loess. R. D. O., **R**, XXV, 27.
- Karabari, *Garó Hills* (78 K/2; 25° 39' : 90° 1'), mammalian remains. E. V., **R**, LI, 331=Caribari.
- Kara-ka-kad, *Tanjore* (58 N/6; 10° 36' : 79° 28'), lateritic gravel, section. R. B. F., **R**, XII, 155.
- Karakokti, *Kashgar* (42 K/16; 37° 9' : 74° 52'), igneous rocks, Sarikol series. H. H. H., **R**, XLV, 300.
- Karakoram pass, *Ladakh* (52 E/14; 35° 31' : 77° 50'), Syringosphæridæ. P. M. D., **R**, XXIII, 80 (Pls. xiii-xv); Triassic beds. R. L., **M**, XXII, 184; C. D., **M**, XXXVI, 317.
- Karakprasad, *Dhenkanal* (73 H/5; 20° 49' : 85° 20'), exfoliation of gneiss. W. T. B., **M**, I, 41 (fig.).
- Karakul-ashu, *Kashgar* (42 K/14; 37° 33' : 74° 56'), Perisphinctes beds. H. H. H., **R**, XLV, 308.
- Karalgi, *Belgaum* (48 I/10; 15° 36' 30" : 74° 34'), kaolin. E. H. P., **R**, LIII, 17; K. H., **R**, LV, 260 (figs.).
- Karamdiha, *Surguja* (64 M/5; 23° 49' : 83° 16' 30"), Damuda plants. O. F., **R**, XIII, 66, 68.
- Karamgohan (Kalamgawan), *Chanda* (55 L/16; 20° 12' : 78° 59'), Lameta limestone, analyses. T. W. H. H., **M**, XIII, 113.
- Karami, *Rewah* (64 I/9; 23° 53' : 82° 36'), crystalline limestone, analysis. F. R. M., **R**, VI, 42.
- Karampudi, *Guntur* (56 P/11; 16° 25' 30" : 79° 43' 30"), old lead mines. W. K., **M**, VIII, 276.
- Karamta Buru, *Singhbhum* (73 F/6; 22° 40' : 85° 25'), hematite-schist. J. A. D., **M**, LIV, 27.
- Karangi, *Bilaspur* (64 J/1; 22° 57' : 82° 5'), river piracy. L. L. F., **R**, XLIV, 237.
- Karangli hill, *Jhelum* (43 H/1; 32° 46' : 73° 2'), Cambrian beds, section. A. B. W., **M**, XIV, 146 (Pl. xv, fig. 19); galena, 300.
- Karani, *Chingleput* (66 C/4; 13° 12' : 80° 4'), boring for water. E. V., **M**, XXXII, 51.
- Karani, *Quetta-Pishin* (34 J/16; 30° 9' : 66° 58'), Cretaceous beds. W. T. B., **M**, XX, 181=Kari.
- Karanja (? Koranjo), *Ranchi* (73 B/7; 22° 25' : 84° 25'), bridge-site. E. H. P., **R**, LXII, 37.
- Karanpur, *Idar* (46 E/6; 23° 42' : 73° 18'), epidiorite. C. S. M., **M**, XLIV, 65.
- Karanpur, *Santal Parganas* (72 P/7; 24° 19' 30" : 87° 23'), kaolin. M. S., **R**, XXXVIII, 135.
- Karanpura, *Hazaribagh* (73 E/1; 23° 50' : 85° 13'), coalfields. T. W. H. H., **M**, VII, 285 (Pl. i); R. R. S., **M**, XLI, 56; A. J., **M**, LII, Pt. 1 (Pls. i-xiv).
- Karanti Buru, *Manbhum* (73 F/13; 22° 53' : 85° 58'), sheared agglomerate. J. A. D., **M**, LIV, 75.
- Karaon, *Santal Parganas* (72 L/12; 24° 7' : 86° 45'), Talchir plants. W. T. B., **M**, III, 38.



- Karara, *Bewah* (63 H/8; 24° 5' : 81° 16'), geodetic station. R. D. O., **M**, XLII, 213.
- Karariwam, *Waziristan* (38 L/3; 32° 18' : 70° 10'), Siwalik beds. M. S., **R**, LIV, 94.
- Kara-su, *Russian Turkestan* (42 F/16; 38° 2' : 73° 58'), Perisphinctes beds. H. H. H., **R**, XLV, 312.
- Karasur, *Pondicherry* (58 M/9; 11° 59' : 79° 44' 30"), phosphatised shells, Cretaceous. H. W., **R**, XXVIII, 18; Cretaceous fossils. F. K., **R**, XXX, 59.
- Karathuri, *Mergui* (96 J/13; 10° 56' : 98° 46'), tin-ore. T. W. H. H., **R**, XXII, 198; T. H. H., **R**, XXXVII, 40.
- Karatugi (Koratgi), *Raichur* (57 A/10; 15° 37' : 76° 40'), Dharwar rocks. R. B. F., **R**, XXII, 31.
- Karauli, *Rajputana* (54 F/3; 26° 30' : 77° 1'), U. Vindhyan beds. A. M. H., **M**, XLV, 159=Kerowlee.
- Karayanbetta, *Coimbatore* (58 E/5; 11° 47' 30" : 77° 16'), green quartzite. H. H. H., **M**, XXXIII, pt. 2, 59.
- Karazak, *Kashgar* (42 I/12; 39° 2' : 74° 32'), slate with granite intrusions. H. H. H., **R**, XLV, 318.
- Karbat (Sarbat), *Las Bela* (35 G/3; 25° 24' : 65° 3'), Makran series, *Pecten*. E. V., **M**, L, 434, 436.
- Karbodra (Karbudurun), *Kashmir* (43 O/6; 33° 31' 30" : 75° 27'), Silurian-Trias sequence. H. H. H., **R**, XLIII, 38.
- Karbu (Bod Kharbu), *Ladakh* (52 B/11; 34° 21' : 76° 34'), Carboniferous shales. R. L., **R**, XIII, 46.
- Karda, *Bhagalpur* (72 L/10; 24° 40' 30" : 86° 43'), lead-ore. L. L. F., **R**, LIII, 282.
- Kardeathal (Karshatal), *Afghanistan* (38 F/15; 34° 25' 30" : 69° 51'), ruby mines. C. L. G., **R**, XXV, 71.
- Kareekasa Nala, *Balaghat* (55 O/10; 21° 43' : 79° 43'), manganese-ore. L. L. F., **M**, XXXVII, 702.
- Kareia (? Kurehi), *Nagod* (63 D/11; 24° 24' : 80° 31' 30"), quartz veins in granite. H. B. M., **M**, II, 51.
- Kareia (Karhayia), *Narsinghpur* (55 N/5; 22° 51' : 79° 24'), Lameta beds, vertebrate fossils. H. B. M., **R**, V, 119; C. A. Matley, **R**, LIII, 156=Karyia.
- Karekurchi, *Tumkur* (57 C/11; 13° 21' : 76° 42' 30"), manganese-ore. L. L. F., **M**, XXXVII, 569, 1153.
- Karela, *Jaipur* (45 N/7; 26° 17' : 75° 30'), Aravalli gneissose granite. A. M. H., **R**, LIV, 353.
- Karela, *Punch* (43 K/3; 33° 26' 30" : 74° 7'), dolomitised limestone. D. N. W., **M**, LI, 254; coal, 264, 324; L. Murree fossils, 269; bauxite, 325.
- Kareya, *Gwalior* (54 K/1; 25° 53' 30" : 78° 0' 30"), Vindhyan sandstones. H. B. M., II, 61=Karhia and Kuraya.
- Karez Dasht, *Afghanistan* (29 G/16; 33° 11' : 61° 46'), Cretaceous fossils. H. D., **R**, LVIII, 346.
- Karez-i-Salim, *Afghanistan* (34 E/6; 31° 40' : 65° 18'), Cretaceous fossils. C. L. G., **M**, XVIII, 41, 43.
- Karganu, *Patiala* (53 F/1; 30° 54' : 77° 13'), Blaini beds. G. E. P., **M**, LIII, 19, 83.

- Kargil, *Ladakh* (52 B/2;  $34^{\circ} 33' : 76^{\circ} 7'$ ), Tertiary beds. F. S., **M**, V, 348; R. L., **R**, XIII, 35; fossils, 41; **M**, XXII, 99; granitoid gneiss, 319.
- Karharbari, *Hazaribagh* (72 L/8;  $24^{\circ} 11' : 86^{\circ} 16'$ ), coalfield. R. R. S., **M**, XLI, 40 (Pls. iv, v); fossil plants. O. F., **R**, XIII, 176=Kurmbari.
- Karhia, *Gwalior* (54 K/1;  $25^{\circ} 53' 30'' : 78^{\circ} 0' 30''$ ), galena and copper-ore. T. D. L., **R**, XL, 113=Kareya and Kuraya.
- Kari, *Quetta-Pishin* (34 J/16;  $30^{\circ} 9' : 66^{\circ} 58'$ ), Cretaceous beds, section. C. L. G., **M**, XVIII, 35 (fig. & Pl. iv, fig. 1)=Karani.
- Kari, *Trichinopoly* (58 I/16;  $11^{\circ} 8' : 78^{\circ} 53'$ ), Gondwana plant beds, section. R. B. F., **R**, XI, 249=Kauray.
- Karia hill, *Rajpipla* (46 G/6;  $21^{\circ} 40' 30'' : 73^{\circ} 17'$ ), trachyte. P. N. B., **R**, XXXVII, 173, 187.
- Karial (Khariar), *Oriasa* (64 L/15;  $20^{\circ} 17' : 82^{\circ} 46'$ ), porphyritic granite. V. B., **R**, X, 183; laterite. C. S. F., **M**, XLIX, 163.
- Kariala, *Jhelum* (43 D/13;  $32^{\circ} 50' : 72^{\circ} 53'$ ), Eocene-Siwalik, section. W. T., **R**, XIV, 83.
- Kariauri, *Patiala* (53 E/4;  $31^{\circ} 6' 30'' : 77^{\circ} 2' 30''$ ), schistose slates, Chail series. G. E. P., **M**, LIII, 93.
- Karigutta hill, *Mysore* (57 D/11;  $12^{\circ} 25' 30'' : 76^{\circ} 44'$ ), felspar porphyry. R. B. F., **R**, XXI, 56.
- Karikal, *Madras* (58 N/13;  $10^{\circ} 55' : 79^{\circ} 50'$ ), sand dunes. W. K., **M**, IV, 250; Artesian boring. E. V., **M**, XXXII, 57; Tertiary fauna. **R**, XXXVI, 322.
- Karimati, *Korea* (64 I/4;  $23^{\circ} 12' 30'' : 82^{\circ} 12'$ ), Archæan inlier. L. L. F., **M**, XLI, 163.
- Karimganj, *Sylhet* (83 D/5;  $24^{\circ} 52' : 92^{\circ} 22'$ ), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 343.
- Karimuddenhalli, *Mysore* (57 D/8;  $12^{\circ} 12' : 76^{\circ} 23'$ ), Dharwar outlier. R. B. F., **R**, XXII, 21.
- Karinja, *Chanda* (56 M/10;  $19^{\circ} 44' : 79^{\circ} 38' 30''$ ), Pakhal beds. W. K., **M**, XVIII, 225.
- Karinji, *Bastar* (65 E/16;  $19^{\circ} 6' : 81^{\circ} 55'$ ), Vindhyan sandstones. V. B., **R**, X, 180.
- Karipatti, *Salem* (58 I/6;  $11^{\circ} 40' : 78^{\circ} 17'$ ), charnockite. T. H. H., **M**, XXVIII, 218; XXX, 124; diabase dyke, 130=Careputty.
- Karkacha range, *Afghanistan* (38 F/11;  $34^{\circ} 22' : 69^{\circ} 40'$ ), Khingil series. H. H. H., **M**, XXXIX, 22.
- Karkambadi, *Chittoor* (57 O/10;  $13^{\circ} 40' : 79^{\circ} 31'$ ), stone implements in laterite. R. B. F., **R**, XII, 204=Curcumbode and Kirkumbady.
- Karkankotai, *Tanjore* (58 N/2;  $10^{\circ} 39' : 79^{\circ} 11'$ ), lateritic sands passing into grits. R. B. F., **R**, XII, 155.
- Karkati, *Kewak* (64 E/3;  $23^{\circ} 22' 30'' : 81^{\circ} 7'$ ), fossil plants. T. W. H. H., **M**, XXI, 209.
- Karket R., *Raigarh* (64 N/4;  $22^{\circ} 4' : 83^{\circ} 11'$ ), Barakar beds. V. B., **R**, VIII, 110.
- Karkh, *Kalat* (35 M/2;  $27^{\circ} 44' 30'' : 87^{\circ} 10'$ ), meteorite. L. L. F., **R**, XXXV, 85 (Pls. ix-xii); J. C. B., **M**, XLIII, 215=Karu.
- Karkheli, *Nander* (56 F/9;  $18^{\circ} 57' : 77^{\circ} 45'$ ), calcified gneiss. K. H., **R**, XLIX, 220.

- Karkunpoor, *Chota Udaipur* (46 J/4; 22° 4' : 74° 3'), Cretaceous sandstone. W. T. B., **M**, VI, 324.
- Karli, *Bhandara* (55 O/10; 21° 30' : 79° 41'), dendrites. L. L. F., **M**, XXXVII, 397; manganese-ore, 765.
- Karmala, *Mewar* (45 L/11; 24° 24' : 74° 36'), basal beds, Delhi series. C. A. H., **R**, XIV, 294.
- Karman, *Persia* (24 F/3; 30° 17' : 57° 5'), earthquakes. G. H. T., **R**, LIII, 53; Cretaceous limestone, 60.
- Karmari, *Sibi* (39 C/10; 29° 38' : 68° 37'), sub-recent gravels. R. D. O., **R**, XXV, 24.
- Karna, *Aden* (7 C/10; 13° 43' : 44° 41' 30"), volcanic ash beds. R. E. L., **R**, XXXVIII, 316.
- Karnak, *Kalat* (34 K/9; 29° 57' : 66° 42' 30"), Eocene sandstones. C. L. G., **R**, XVIII, 59.
- Karnji, *Surguja* (64 M/7; 23° 19' : 83° 20'), Talchir beds. V. B., **R**, VI, 28.
- Karnprayag, *Garhwal* (53 N/3; 30° 15' 30" : 79° 13'), sericitic quartzites. T. H. H., **R**, XXVII, 57.
- Karo Kot, *Larkhana* (35 N/6; 26° 37' : 67° 15'), hot spring. W. T. B., **M**, XVII, 100.
- Karo La, *Tibet* (77 L/1; 28° 53' : 90° 12'), granite. H. H. H., **R**, XXXII, 168; **M**, XXXVI, 160.
- Karog, *Patiala* (53 F/1; 30° 56' : 77° 11' 30"), Blaini limestone. G. E. P., **M**, LIII, 19.
- Karolanda Kurchi (Karundalakurichchi), *S. Arcot* (58 I/14; 11° 32' 30" : 78° 55'), quartzo-felspathic gneiss. W. K., **M**, IV, 308.
- Karolian (Kalwan), *Jaipur* (54 B/9; 26° 55' 30" : 76° 38' 30"), Delhi-Aravalli unconformity. A. M. H., **R**, XLVIII, 186.
- Karomar, *Jaipur* (54 B/6; 26° 39' : 76° 26'), anticline, Delhi series. A. M. H., **R**, XLVIII, 197.
- Karparia, *Balaghat* (55 O/10; 21° 40' 30" : 79° 42'), manganese-ore. L. L. F., **M**, XXXVII, 700, 702.
- Karra, *Ranchi* (73 F/9; 22° 51' 30" : 85° 33'), sericite-schist. J. A. D., **M**, LIV, 50.
- Karrabagaddi (Garbhagadi) hill, *Bellary* (48 N/14; 14° 44' : 75° 47'), hematite beds, Dharwar. R. B. F., **M**, XXV, 81=Curraguddy hill.
- Karrachel, *Travancore* (58 H/3; 8° 21' : 77° 2'), Warkilli beds. R. B. F., **R**, XVI, 26.
- Karrachola, *Nilgiri* (58 A/15; 11° 25' : 76° 50'), iron-ore. H. F. B., **M**, I, 219.
- Karray (Khari), *Cutch* (41 A/11; 23° 28' : 68° 41'), Nummulitic beds, section. A. B. W., **M**, IX, 252.
- Karreari (? Kuriani), *Cutch* (41 A/10; 23° 43' : 68° 39' 30"), Gaj series, mollusca. E. V., **M**, L, 263.
- Karseri, *Tinnevely* (58 H/14; 8° 36' : 77° 49' 30"), travertine. R. B. F., **M**, XX, 77.
- Kartarkar (Kirtaka), *Chagai* (30 G/7; 29° 28' : 61° 24'), selenite and sulphur. T. H. H., **R**, XXX, 129.
- Karteri falls, *Nilgiri* (58 A/11; 11° 20' 30" : 76° 44'), dam-site. C. L. G., **A. R.**, 1901, 12.

- Kartha (Kamtha), *Chhindwara* (55 J/14; 22° 31' 30" : 78° 54'), Deccan trap sill. L. L. F., R, LXV, 98.
- Karu, *Kalat* (35 M/2; 27° 44' 30" : 87° 10'), Cretaceous antiocline. E. V., R, XXXVI, 180=Karkh.
- Karuli, *Jhelum* (43 D/14; 32° 41' : 72° 46' 30"), coal seam, section. A. B. W., M, XIV, 178; E. H. P., M, XL, 486=Kuruli.
- Karuppur, *Salem* (58 I/2; 11° 43' : 78° 5' 30"), chromite. E. H. P., R, LVII, 23 =Carupoor.
- Karutapalayam, *Coimbatore* (58 E/12; 11° 2' 30" : 77° 31'), corundum. C. S. M., R, XXIX, 47 (Pl. viii); mica. T. H. H., M, XXXIV, 31 (note), 58; dysluite. L. L. F., M, XXXVII, 37.
- Karwahi, *Nagpur* (55 O/6; 21° 40' : 79° 27'), dolomitic marble. E. H. P., R, LXI, 113.
- Karwar, *Jaipur* (54 F/2; 26° 38' 30" : 77° 2'), iron-ore. C. A. H., R, XIII, 248.
- Karwi, *Banda* (63 C/16; 25° 13' : 80° 51'), dam-site. T. H. H., R, XXXVIII, 39.
- Karyia, *Narsinghpur* (55 N/5; 22° 51' : 79° 24'), Lameta beds. J. G. M., M, II, 196=Kareia.
- Karzat (Kasat), *Mergui* (95 L/11; 12° 17' : 98° 44' 30"), tin-ore. J. C. B., R, LII, 239=Kazat.
- Karzok, *Ladakh* (52 L/1; 32° 58' : 78° 14'), intrusive rocks, Tertiary. R. D. O., R, XXI, 155.
- Kas, *Salara* (47 G/14; 17° 43' : 73° 48' 30"), manganese-ore. L. L. F., M, XXXVII, 662.
- Kas Koh, *Kalat* (34 H/1; 28° 50' : 65° 12'), igneous rocks. E. V., A. R., 1899, 67=Ras Koh.
- Kasai hill, *Jubbulpore* (64 A/2; 23° 31' : 80° 5'), manganiferous limonite. P. N. B., R, XXI, 77, 86; L. L. F., M, XXXVII, 814, 820.
- Kasambal, *Mandi* (52 D/16; 32° 1' 30" : 76° 52'), dam-site. L. L. F., R, LXV, 47.
- Kasamuri Rao, *Saharanpur* (53 F/11; 30° 15' : 77° 45'), ulna of *Hyænarctos*. R. L., R, XXI, 145 (figs.).
- Kasan, *Gurgaon* (53 D/15; 28° 21' 30" : 76° 54'), pegmatite. A. M. H., M, XLV, 36, 98.
- Kasang Sampa, *Tibet* (77 K/8; 29° 7' : 90° 23'), lake. H. H. H., M, XXXVI, 133.
- Kasangod, *Idar* (46 E/1; 23° 49' : 73° 12' 30"), Mundeti series. C. S. M., M, XLIV, 54.
- Kasaoli, *Simla* (53 B/13; 30° 54' : 76° 58'), plant beds. H. B. M., M, III, pt. 2, 12, 85; water-supply, 181; Kangra earthquake, 1905. C. S. M., M, XXXVIII, 197.
- Kasarla, *N. Kanara* (48 I/7; 15° 21' 30" : 74° 27' 30"), manganese-ore. E. H. P., R, LXII, 59.
- Kasarmari, *Chota Udaipur* (46 J/3; 22° 20' 30" : 74° 0' 30"), granite. G. V. H., R, LIX, 343; dolerite dyke, 351.
- Kasarsadda, *Belgaum* (48 I/1; 15° 55' : 74° 7'), bauxite. C. S. F., M, XLIX, 69.
- Kasaupully, *Anantapur* (57 F/14; 14° 44' 30" : 77° 48'), fault-rock. W. K., M, VIII, 154.

- Kashka pass, *Afghanistan* (38 B/1 ; 34° 51' : 68° 0'), conglomerate, Red Grit series. H. H. H., **M**, XXXIX, 52.
- Kashmari, *Simla* (53 E/4 ; 31° 1' 30" : 77° 4'), Blaini beds. G. E. P., **M**, LIII, 83.
- Kashmaru, *Afghanistan* (29 F/8 ; 34° 8' : 61° 27' 30"), Carboniferous rocks, section. C. L. G., **R**, XIX, 51.
- Kasipur, *Adilabad* (56 M/8 ; 19° 2' : 79° 26'), Talchir beds. W. K., **M**, XVIII, 242.
- Kasmar, *Ranchi* (73 F/1 ; 22° 58' : 85° 6'), granite veins in epidiorite. J. A. D., **M**, LIV, 127.
- Kasom, *Manipur* (83 K/12 ; 25° 3' : 94° 45'), marble. R. D. O., **M**, XIX, 219.
- Kasrauli, *Ranchi* (73 F/9 ; 22° 51' : 85° 34'), tuff, Iron Ore series. J. A. D., **M**, LIV, 49.
- Kasr-i-Shirin, *Persia* (2 F/10 ; 34° 31' : 45° 34'), petroleum spring. G. E. P., **M**, XXXIV, pt. 4, 146.
- Kassaulia (Koshallia) R., *Pinjaur* (53 B/13 ; 30° 47' : 76° 55'), coal seam. C. L. G., **R**, XXV, 7 ; R. R. S., **M**, XLI, 112.
- Kasta, *Santal Parganas* (73 M/1 ; 23° 49' : 87° 4'), coal seam, section. W. T. B., **M**, III, 47.
- Kastur Nala, *Balaghat* (64 C/5 ; 21° 58' : 80° 26'), manganese-ore. L. L. F., **M**, XXXVII, 728.
- Kasumpur, *Delhi* (53 H/2 ; 28° 33' 30" : 77° 9' 30"), kaolin. H. H. H., **R**, L, 15 =Kusumpoor.
- Kasumpti, *Simla* (53 E/4 ; 31° 4' 30" : 77° 11'), talc-schist, Chail series. G. E. P., **M**, LIII, 90 ; Jutogh series, 107.
- Kasva, *Tippera* (79 M/2 ; 23° 45' : 91° 9'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 333.
- Katangi, *Balaghat* (55 O/13 ; 21° 46' : 79° 48'), manganese-ore. L. L. F., **M**, XXXVII, 693.
- Katangi, *Santal Parganas* (72 P/7 ; 24° 30' : 87° 26'), kaolin. M. S., **R**, XXXVIII, 134.
- Katangjheri, *Balaghat* (55 O/13 ; 21° 50' : 79° 58'), manganese-ore. L. L. F., **M**, XXXVII, 710.
- Katapur (Katapalli), *Adilabad* (56 M/16 ; 19° 4' : 79° 48'), Kota beds. W. K., **R**, XIII, 16.
- Katar, *Mewar* (45 H/9 ; 24° 53' : 73° 35'), Delhi-Aravalli boundary. E. H. P., **R**, LX, 111.
- Katar Kala, *Afghan-Turkestan* (33 E/1 ; 35° 55' : 65° 0' 30"), Pliocene beds. C. L. G., **R**, XIX, 259.
- Katar Sum Kotal, *Afghanistan* (33 N/9 ; 34° 58' : 67° 39'), Fusulina limestone. H. H. H., **M**, XXXIX, 56.
- Katarampokam, *S. Arcot* (57 P/16 ; 12° 3' : 79° 45'), Cretaceous beds. H. W., **R**, XXVIII, 15.
- Katas, *Jhelum* (43 D/14 ; 32° 43' 30" : 72° 57'), sacred spring. A. B. W., **M**, XIV, 47.
- Kata-Sang, *Afghanistan* (38 F/3 ; 34° 20' 30" : 69° 12'), metamorphic rocks. C. L. G., **R**, XXV, 74.

- Katauria, *Bhagalpur* (72 L/10 ; 24° 45' : 86° 43'), lateritic iron-ore. L. L. F., R, LIII, 272.
- Kategurrah, *Cachar* (83 D/9 ; 24° 53' : 92° 34'), Tertiary beds, fossil wood. H. B. M., M, IV, 434.
- Katerikupam, *Pondicherry* (57 P/12 ; 12° 0' : 79° 42'), Cretaceous beds. H. W., R, XXVIII, 16.
- Kateru, *Godavari* (65 G/16 ; 17° 2' 30" : 81° 46'), Intertrappean fossils. W. K., M, XVI, 232, 240.
- Katha, *Burma* (92 D/8 ; 24° 10' : 96° 20'), earthquake, 1897, sounds. R. D. O., M, XXIX, 195 ; *Burma* earthquake, 1912. J. C. B., M, XLII, 57.
- Katha, *Shahpur* (43 D/6 ; 32° 31' : 72° 26'), bi-pyramidal quartz-crystals. T. H. H., R, XXIV, 231=Katta.
- Kathai, *Kashmir* (43 F/16 ; 34° 9' : 73° 50'), supposed moraine. W. T., R, XIII, 226 ; Panjal-Tertiary boundary. D. N. W., R, LXV, 200.
- Kathargaon (Khategaon), *Indore* (55 B/14 ; 22° 36' : 76° 55'), dolerite dykes. T. H. H., R, XXXVII, 49.
- Katharigarh, *Belgaum* (48 I/13 ; 15° 54' : 74° 59'), granitoid gneiss. R. B. F., M, XII, 43 ; L. Kaladgi beds, 97.
- Kathe, *Ruby Mines* (93 B/5 ; 22° 55' : 96° 26'), gem stones. L. L. F., R, XLVI, 199.
- Kathgodam, *Naini Tal* (53 O/11 ; 29° 16' : 79° 32'), detrital fan. C. S. M., R, XXIII, 215.
- Kathlighat, *Patiala* (53 E/4 ; 31° 1' 30" : 77° 6'), overthrust fault. G. E. P., M, LIII, 9 ; Chail quartzites, 93.
- Kathmandu, *Nepal* (72 E/6 ; 27° 42' : 85° 19'), Kangra earthquake, 1905. C. S. M., M, XXXVIII, 269=Katmandu.
- Kathroti, *Idar* (46 E/1 ; 23° 54' : 73° 10'), Delhi quartzite. C. S. M., M, XLIV, 83.
- Kathumri, *Dholpur* (54 J/2 ; 26° 41' : 78° 2' 30"), selenite. A. M. H., R, XLV, 82.
- Kathwai, *Shahpur* (43 D/3 ; 32° 29' : 72° 12'), Alveolina limestone. E. H. P., M, XL, 346=Katwahi.
- Katiapar, *Seoni* (55 O/6 ; 21° 45' : 79° 17'), dykes, Deccan trap age. H. H. H., R, XLIV, 36.
- Katiar, *Kalat* (39 C/4 ; 29° 3' : 68° 11' 30"), Baluchistan earthquake, 1909. A. M. H., R, XLI, 31.
- Katigora, *Cachar* (83 D/9 ; 24° 53' : 92° 34'), earthquake, 1897, fissures. R. D. O., M, XXIX, 343.
- Katikela, *Sambalpur* (73 C/1 ; 21° 47' : 84° 5'), metamorphic conglomerate. V. B., R, X, 182.
- Katkamsandi, *Hazaribagh* (72 H/4 ; 24° 6' 30" : 85° 12'), hot springs, sulphurous. T. O., M, XIX, 138 ; calderite. L. L. F., M, XXXVII, 182, 616.
- Katkol, *Kolhapur* (48 M/1 ; 15° 59' : 75° 8'), flooring slabs. H. C. J., R, LIV, 430.
- Katkot, *Katut, Indore* (55 B/3 ; 22° 25' : 76° 7'), Cretaceous beds. W. T. B., M, VI, 262 ; Gondwana sandstone. P. N. B., M, XXI, 20, 70 ; manganese-ore. L. L. F., M, XXXVII, 676,

- Katmandu, *Nepal* (72 E/6; 27° 42' : 85° 19'), earthquake, 1897. R. D. O., **M**, XXIX, 38; Srimangal earthquake, 1918. M. S., **M**, XLVI, 33=Kathmandu.
- Katmirki, *Santal Parganas* (72 L/12; 24° 11' : 86° 42'), coal mine. R. R. S., **M**, XLI, 40.
- Katna R., *Rewah* (64 E/12; 23° 12' : 81° 41'), coal seam. R. R. S., **M**, XLI, 78.
- Katni, *Jubbulpore* (64 A/5; 23° 50' : 80° 24'), bauxite. C. S. F., **M**, XLIX, 124; analyses. T. H. H., **R**, XXII, 179; L. L. F., **R**, L, 274; limestone. T. H. H., **R**, XXXIX, 226; fullers' earth, 230.
- Katnowa hills, *Monghyr* (72 L/5; 24° 57' : 86° 16'), manganese-ore. L. L. F., **M**, XXXVII, 617.
- Kato, *Ladakh* (52 H/13; 32° 57' : 77° 46'), Jurassic fossils. R. L., **M**, XXII, 172.
- Katora pass, *Surguja* (64 J/14; 22° 44' : 82° 55'), Talchir-Barakar junction. W. K., **R**, XVIII, 194.
- Katotia, *Dhar* (55 B/7; 22° 24' 30" : 76° 18' 30"), manganiferous sandstone. L. L. F., **M**, XXXVII, 674.
- Katpadi, *N. Arcot* (57 P/1; 12° 58' : 79° 9'), biotite-gneiss. E. H. P., **R**, LXI, 122.
- Katrath, *Bankura* (73 J/13; 22° 59' : 86° 51'), iron-ore. L. L. F., **R**, LIII, 274.
- Katras, *Manbhum* (73 I/5; 23° 48' 30" : 86° 18'), coal seams. R. R. S., **M**, XLI, 51=Kutras.
- Katrol, Katrore (hill), *Cutch* (41 E/16; 23° 11' : 69° 47'), Jurassic beds. W. T. B., **M**, VI, 22; section. A. B. W., **M**, IX, 180; ammonites. W. W., **R**, IV, 100.
- Katsura, *Ladakh* (43 M/7; 35° 28' : 75° 26'), ancient moraine. R. L., **R**, XIV, 9, 49.
- Katta, Kattha Misral, *Shahpur* (43 D/6; 32° 31' : 72° 26'), brine spring. A. B. W., **M**, XIV, 209; Cambrian beds. E. H. P., **R**, LXII, 161=Katha.
- Katang, *Myitkyina* (92 C/2; 25° 31' : 96° 11'), iron-ore. E. H. P., **R**, LXII, 54.
- Katulkassa, *Khairagarh* (64 C/15; 21° 20' : 80° 45'), iron-ore. P. N. B., **R**, XX, 168.
- Katun, *Thaton* (94 H/6; 16° 44' : 97° 25'), stibnite. J. C. B., **R**, LVI, 100.
- Katwa, *Burdwan* (79 A/2; 23° 39' : 88° 8'), earthquake 1897, fissures. R. D. O., **M**, XXIX, 324.
- Katwa, *Singbhum* (73 F/10; 22° 41' : 85° 35' 30"), dykes in granite. J. A. D., **M**, LIV, 135.
- Katwahi, *Shahpur* (43 D/3; 32° 29' : 72° 12'), Eocene beds. A. B. W., **M**, XIV, 216=Kathwai.
- Katwaldar (Kaphaldanda), *Nepal* (72 E/2; 27° 36' : 85° 12'), gorge. H. B. M., **R**, VIII, 96.
- Kau (Gaw), *Sandoway* (85 J/7; 18° 29' : 94° 17'), steatite. W. T., **M**, X, 338.
- Kaudoor (Kadur), *Trichinopoly* (58 M/3; 11° 15' 30" : 79° 6' 30"), Ariyalur fossils, H. F. B., **M**, IV, 136.
- Kaukul Conda (Kakala Konda), *Cuddapah* (57 N/3; 14° 17' 30" : 79° 9'), Cuddapah beds, section. W. K., **M**, VIII, 214 (fig. ).
- Kaulagi, *Gulbarga* (56 G/3; 17° 21' : 77° 9'), hot springs. T. O., **M**, XIX, 146.
- Kaulia, *Nepal* (72 E/1; 27° 49' : 85° 15'), geodetic station. R. D. O., **M**, XLII, 247.

- Kaungtang Hpong, *Putao* (92 E/10; 27° 43' : 97° 44'), iron-ore. M. S., R, L, 253.
- Kaunia, *Rangpur* (78 G/5; 25° 47' : 89° 25'), earthquake, 1897. H. H. H., M, XXIX, 286; aftershocks. R. D. O., M, XXX, 5.
- Kaur, *Waziristan* (38 L/4; 32° 8' : 70° 14'), dam-site. E. H. P., R, LXIII, 65.
- Kauray (Karai), *Trichinopoly* (58 I/16; 11° 8' : 78° 53'), Utatur beds. H. F. B., M, IV, 43, 56, 86=Kari.
- Kavhad, *Shahpur* (43 D/3; 32° 28' : 72° 8'), fault. A. B. W., M, XIV, 55, 219 (Pl. xxii, fig. 39).
- Kavudahalli (Kowdalli), *Coinbatore* (57 H/8; 12° 4' : 77° 26' 30"), old workings for gold. R. D. O., R, XXX, 2; H. H. H., M, XXXIII, pt. 2, 64.
- Kawa, *Idar* (46 A/13; 23° 52' 30" : 72° 55'), Idar granite, analysis. C. S. M., M, XLIV, 121; petrology, 125 (Pl. xiv, fig. 5); olivine-dolerite, petrology and analysis, 132 (Pl. xvi, figs. 2, 3); hybrid rock, 134 (Pl. xvi, fig. 5).
- Kawa, *Jaipur* (54 B/5; 26° 46' : 76° 29' 30"), steatite. H. H. H., R, XLIII, 21; A. M. H., R, XLVIII, 200.
- Kawa, *Pegu* (94 C/8; 17° 6' : 96° 28'), Pegu earthquake, 1930. J. C. B., R, LXV, 231.
- Kawal R., *Sirmur* (53 F/1; 30° 52' : 77° 12'), overfold in Simla and Krol beds. G. E. P., M, LIII, 11 (figs.).
- Kawant, *Chota Udaipur* (46 J/4; 22° 5' 30" : 74° 3'), Cretaceous inliers. P. N. B., M, XXI, 28=Kawat.
- Kawarsa (Kawadsi), *Yeotmal* (56 M/1; 19° 55' 30" : 79° 4'), Kamthi plants and *Estheria*. T. W. H. H., M, XIII, 70, 77; O. F., R, X, 28; W. T. B., R, XI, 128.
- Kawat, *Chota Udaipur* (46 J/4; 22° 5' 30" : 74° 3'), pre-trappean erosion of Cretaceous beds. W. T. B., M, VI, 213, 324=Kawant.
- Kawkari Taung, *Amherst* (95 E/11; 15° 19' 30" : 97° 43' 30"), lamprophyre. E. H. P., R, LXII, 101.
- Kawmappin, *Mergui* (95 P/3; 12° 25' : 99° 6'), coalfield. T. W. H. H., R, XXVI, 41, 49; coal, analyses. G. S. L., R, XXV, 166=Kamapying.
- Kawngsong, *N. Shan States* (93 E/7; 23° 19' : 97° 16'), seriticised granite. E. H. P., R, LXIII, 92.
- Kawng-mu, *N. Shan States* (93 E/8; 23° 12' 30" : 97° 16' 30"), Chaung Magyi slates. J. C. B., R, XLVIII, 139.
- Kawt-ta Bum, *Hukawng* (92 F/3; 26° 27' : 97° 1'), volcanic dome. L. L. F., R, LXV, 78.
- Kayan, *Pegu* (94 D/9; 16° 54' : 96° 33'), Pegu earthquake, 1930. J. C. B., R, LXV, 230.
- Kayenchauang, *Toungoo* (94 A/8; 19° 9' : 96° 26'), hot spring. W. T., M, X, 352; T. O., M, XIX, 151.
- Kayeng, *Cachar* (83 C/16; 25° 5' 30" : 92° 49'), coal seams. F. H. S., M, XXVIII, 72; R. R. S., M, XLI, 31.
- Kayingyauk, *Minbu* (84 L/6; 20° 40' : 94° 25' 30"), *Batisia birmanica*. E. V., R, LI, 266.
- Kayinzu, *Prome* (85 N/2; 18° 44' 30" : 95° 11'), oil seepage. E. H. P., M, XL, 176.



- Kayloo Myoung, *Toungoo* (94 B/10; 18° 35' : 96° 45'), hot spring. T. O., **M**, XIX, 151.
- Kay-mah-pew, *Karenni* (94 E/4; 19° 1' : 97° 7'), tin-ore. W. T., **R**, VI, 92 =Mawchi.
- Kazat, *Mergui* (95 L/11; 12° 17' : 98° 44' 30'), tin-ore. L. L. F., **R**, LIV, 52 =Karzat.
- Kazi Nag range, *Kashmir* (43 J/4; 34° 15' : 74° 5'), gneissose granite. H. H. H., **R**, XLIV, 37; D. N. W., **R**, LXV, 198=Kaj Nag.
- Kazrun, *Persia* (10 O/10; 29° 37' : 51° 39'), gypsum beds, Fars series. G. E. P., **M**, XXXIV, pt. 4, 69.
- Keari, *Patiala* (53 F/1; 31° 0' : 77° 5' 30'), Blaini beds. H. B. M., **M**, III, pt. 2, 36=Kiarighat and Kyari Ghat.
- Kebang, *Abor Hills* (82 P/4; 28° 9' : 95° 2'), volcanic series. J. C. B., **R**, XLII, 242.
- Kedarnath, *Garhwal* (53 N/2; 30° 44' : 79° 4'), glacier. C. L. G., **M**, XXIII, 29 (frontispiece).
- Keddamullay, *Salem* (58 I/6; 11° 32' 30" : 78° 16' 30"), iron-ore. W. K., **M**, IV, 296.
- Keel Kundah, *Nilgiri* (58 A/11; 11° 16' : 76° 39'), fault-scarp. H. F. B., **M**, I, 231.
- Keelanuttom (Kil Nattam), *Trichinopoly* (58 M/4; 11° 2' 30" : 79° 14'), Ariyalur stage, middle beds. H. F. B., **M**, IV, 138.
- Keemamlee, *Surat* (46 C/15; 21° 25' : 72° 55'), Eocene fossils. W. T. B., **M**, VI, 365.
- Keera hill, *Cutch* (41 E/2; 23° 35' : 69° 14'), Jurassic beds, fossils. A. B. W., **M**, IX, 211.
- Keeranore, *Trichinopoly* (58 J/5; 10° 47' : 78° 17'), crystalline limestone. W. K., **M**, IV, 272=Kiranur.
- Keerapatti, *Salem* (58 I/6; 11° 32' : 78° 29'), iron smelting. T. H. H., **R**, XXV, 149.
- Keereegurha, *Hazaribagh* (73 E/6; 23° 40' 30" : 85° 16' 30"), Barakar-Raniganj stages, sections. A. J., **M**, LII, 124.
- Keerumboor (Kirambur), *Salem* (58 I/4; 11° 11' 30" : 78° 5' 30"), iron-ore. W. K., **M**, IV, 286.
- Kehsi Mansam, *S. Shan States* (93 G/13; 21° 56' : 97° 50'), Fusulina limestone. T. D. L., **M**, XXXIX, pt. 2, 259 (fig.).
- Kejuria, *Bhagalpur* (72 L/10; 24° 42' : 86° 44'), lead-ore. L. L. F., **R**, LIII, 282.
- Kekohaki, *Kashgar* (42 K/14; 37° 33' : 74° 55'), Jurassic beds, section. H. H. H., **R**, XLV, 307 (fig.).
- Kekra, *Mandla* (64 B/1; 22° 47' : 80° 12'), faults in Deccan trap. H. H. H., **R**, XLVII, 37.
- Kekrahee, *Palamau* (73 A/14; 23° 40' : 84° 50' 30"), overthrust, Barakar boundary. A. J., **M**, LII, 50 (fig.).
- Kel, *Kashmir* (43 J/5; 34° 49' : 74° 21'), augen-gneiss. R. L., **R**, XV, 18.
- Kelat, *Baluchistan* (34 K/12; 29° 2' : 66° 34' 30"), Mesozoic fossils. W. T. B., **M**, XVII, 43=Khelat.
- Kelat, *Kulu* (52 H/4; 32° 11' : 77° 12'), hot spring. T. O., **M**, XIX, 120,

- Kelat-i-Nadri, *Persia* (22 O/16; 37° 1' : 59° 46'), Rhætic-Cretaceous beds. C. L. G., R, XIX, 62; Cretaceous fossils. H. S. B., R, LVI, 265.
- Kelaung R., *Mandalay* (93 B/12; 22° 5' : 96° 41'), calcareous dams. T. D. L., M, XXXIX, pt. 2, 197 (Pl. xix).
- Kelhari, *Korea* (64 I/3; 23° 25' : 82° 2' 30"), coal seam. L. L. F., M, XLI, 220.
- Kelhauri, *Rewah* (64 E/12; 23° 11' : 81° 38'), coal seam. T. W. H. H., M, XXI, 182; R. R. S., M, XLI, 78.
- Kelil Ghat, *Belgaum* (48 I/6; 15° 34' : 74° 17'), manganese-ore. L. L. F., M, XXXVII, 635.
- Kelkach, *Bhopal* (55 I/12; 23° 0' 30" : 78° 36'), fossil wood in Narbada alluvium. W. T., M, II, 291.
- Kelo R., *Raigarh* (64 O/5; 21° 50' : 83° 26'), coal seam. V. B., R, IV, 106; VIII, 111.
- Kelod, *Nagpur* (55 K/15; 21° 27' 30" : 78° 53'), metamorphic rocks. W. T. B., M, IX, 302; Kamthi beds, 305; Lameta beds, 315.
- Kelur, *Sangli* (48 M/16; 15° 9' : 75° 46' 30"), manganese-ore. L. L. F., M, XXXVII, 644.
- Kelvi, *Belgaum* (47 L/16; 16° 6' : 74° 50'), Dharwar inlier. R. B. F., R, XXI, 43.
- Kelwa, *Mewar* (45 G/16; 25° 9' : 73° 51'), marble. E. H. P., R, LX, 48.
- Kembhawi, *Gulbarga* (56 D/10; 16° 39' : 76° 32'), basal conglomerate, Bhima series. R. B. F., M, XII, 143.
- Kempinkote, *Hassan* (57 D/9; 12° 54' 30" : 76° 31'), Dharwar outlier, old gold mine. R. B. F., R, XXII, 19; manganiferous granite-porphry. L. L. F., M, XXXVII, 1126.
- Kenda, *Burdwan* (73 M/2; 23° 40' : 87° 10'), coal seam. R. R. S., M, XLI, 46.
- Kendadih, *Singhbhum* (73 J/6; 22° 36' : 86° 26'), kyanite-quartz-schist, analysis. J. A. D., M, LII, 238.
- Kendbai, *Singhbhum* (73 F/7; 22° 28' : 85° 24' 30"), basic sills. E. H. P., R, LXI, 99.
- Kendbursa, *Bankura* (73 M/3; 23° 25' : 87° 6'), dyke. W. T. B., M, I, 257.
- Kendra, *Burdwan* (73 M/2; 23° 44' : 87° 14' 30"), coal seam. R. R. S., M, XLI, 46; E. H. P., R, LXII, 143.
- Kendwadih, *Manbhum* (73 I/6; 23° 43' 30" : 86° 23'), coal seam. T. W. H. H., M, V, 258.
- Kenga, *Bhutan* (78 M/8; 27° 7' : 91° 18'), dolomite. G. E. P., R, XXXIV, 27.
- Keng-ma, *Yunnan* (93 M/6; 23° 32' 30" : 99° 24'), lead mines. J. C. B., M, XLVII, 137.
- Kengshubar, *Kashgar* (42 O/2; 37° 38' : 75° 4'), Sarikol slates. H. H. H., R, XLV, 305.
- Kengshubar-uch-kol, *Russian Turkestan* (42 G/14; 37° 35' : 73° 54'), Belemnite beds. H. H. H., R, XLV, 313.
- Keng-yua, *Henzada* (85 N/3; 18° 20' : 95° 14' 30"), section, Mogaung sands. W. T., M, X, 261; M. S., R, XLI, 246=Kyangin.
- Kenji R., *Sind* (35 M/6; 27° 41' : 67° 26'), Gaj and Nari beds. W. T. B., M, XVII, 80.
- Kenkere, *Chitaldrug* (57 C/5; 13° 55' 30" : 76° 23'), manganese-ore. L. L. F., M, XXXVII, 430.

- Kenomah, *Naga Hills* (83 G/14 ; 25° 35' : 93° 55'), Cachar earthquake, 1869. T. O., **M**, XIX, 26.
- Kantai, *Singhbhum* (73 F/6 ; 22° 44' 30" : 85° 21'), laterite. J. A. D., **M**, LIV, 143.
- Keolari, *Jubbulpore* (64 A/3 ; 23° 28' : 80° 11' 30"), manganese-ore. P. N. B., **R**, XXI, 83.
- Keonda, *Mirzapur* (63 L/14 ; 24° 31' : 82° 59'), L. Vindhyan unconformity. F. R. M., **M**, VII, 31.
- Kera Khas, *Singhbhum* (73 F/10 ; 22° 44' : 85° 34'), sheared granite. J. A. D., **M**, LIV, 111.
- Kerabahara, *Korea* (64 1/7 ; 23° 25' : 82° 25'), coal seams. L. I. F., **M**, XLI, 193, 220.
- Kerabir, *Singhbhum* (73 F/6 ; 22° 39' 30" : 85° 26'), hematite-quartz-schist. J. A. D., **M**, LIV, 27.
- Keraha, *Rewah* (63 H/7 ; 24° 24' : 81° 27' 30"), Jhiri shales. F. R. M., **M**, VII, 66.
- Keral, *Rawalpindi* (43 G/6 ; 33° 39' 30" : 73° 27'), Chinji beds. D. N. W., **M**, LI, 283, 355.
- Keran, *Kashmir* (43 F/14 ; 34° 39' : 73° 57'), Cambro-Silurian beds. D. N. W., **R**, LXV, 202.
- Keraniganj, *Dacca* (79 I/6 ; 23° 41' : 90° 25'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Kersani, *Bijawar* (54 P/14 ; 24° 34' 30" : 79° 50' 30"), overlap in Vindhyan. H. B. M., **M**, II, 59.
- Kerjang, *Angul* (73 C/16 ; 21° 10' : 84° 53'), fault. W. T. B., **M**, I, 68.
- Kerkalmatti, *Bijapur* (47 P/12 ; 16° 8' : 75° 35'), L. Kaladgi shales. R. B. F., **M**, XII, 127.
- Kerkuk, *Iraq* (2 A/7 ; 35° 26' : 44° 26'), petroleum. G. E. P., **M**, XXXIV, pt. 4, 148=Kirkuk.
- Kerloe hill, *Sirmur* (53 F/6 ; 30° 41' : 77° 27'), Krol beds. H. B. M., **M**, III, pt. 2, 45.
- Kerowlee, *Rajputana* (54 F/3 ; 26° 30' : 77° 1'), Kaimur sandstone. F. R. M., **M**, VII, 59=Karauli.
- Kes, *Chitral* (38 M/14 ; 35° 38' : 71° 47' 30"), crystalline limestone. H. H. H., **R**, XLV, 281.
- Kesarbagh, *Dholpur* (54 F/14 ; 26° 40' : 77° 50'), manganese-ore. H. H. H., **R**, XLIV, 21.
- Kesarbari, *Dinajpur* (78 B/12 ; 26° 8' : 88° 31'), geodetic station. R. D. O., **M**, XLII, 225.
- Kesarpur, *Idar* (46 E/2 ; 23° 41' : 73° 1' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 85 ; Idar granite, 124.
- Keshlak, *Afghanistan* (38 F/3 ; 34° 24' 30" : 69° 13'), hematite-quartzite. H. H. H., **M**, XXXIX, 17.
- Keskal, *Bastar* (64 H/12 ; 20° 5' : 81° 35' 30"), L. Vindhyan sandstones. P. N. B., **A. R.**, 1899, 38.
- Kesla, *Hoshangabad* (55 F/15 ; 22° 28' : 77° 50' 30"), boring for coal. H. B. M., **M**, X, 187 ; **R**, V, 110, VIII, 69 ; E. J. J., **M**, XXIV, 10 ; R. R. S., **M**, XLI 92.

- Kesma, *Surguja* (64 N/1; 22° 45' : 83° 3'), Talchir beds. V. B., **R**, XV, 111.
- Kesobin, *Shwebo* (84 N/13; 22° 48' : 95° 54' 30"), coal seam. W. K., **R**, XXVII, 34=Ket-zu-bin.
- Kesodeh, *Hazaribagh* (72 L/4; 24° 11' 30" : 86° 2'), hot spring, sulphurous. T. O., **M**, XIX, 139.
- Kesri, *Narwar* (54 G/9; 25° 47' : 77° 41'), geodetic station. R. D. O., **M**, XLII, 218.
- Kesura, *Surguja* (64 N/1; 22° 48' : 83° 7'), Talchir-Barakar junction. W. K., **R**, XVIII, 194.
- Ket-zu-bin, *Shwebo* (84 N/13; 22° 48' : 95° 54' 30"), coal seam. R. R. S., **M**, XLI, 72=Kesobin.
- Kevra, *Chota Udaipur* (46 F/15; 22° 27' : 73° 48'), Champaner-quartzites. G. V. H., **R**, LIX, 345.
- Kew, *Ladakh* (52 G/5; 34° 0' : 77° 16'), nummulitic beds. F. S., **M**, V, 344=Kio and Skiu.
- Keypar (Kapare), *Hoshiarpur* (53 A/2; 31° 33' : 76° 6'), *Sivalhippus*. R. L., **R**, X, 31.
- Keyudo, *Salween* (94 F/2; 18° 38' : 97° 3'), quartz bands in gneiss. E. L. C., **R**, LX, 295.
- Keyverji R., *Rewah* (64 E/16; 23° 4' : 81° 53'), coal. R. R. S., **M**, XLI, 75.
- Khabaki, *Shahpur* (43 D/2; 32° 37' : 72° 13'), lake. A. B. W., **M**, XIV, 46, 63; oil seepages. E. H. P., **M**, XL, 437=Kabaki.
- Khadarpur, *Karuuli* (54 B/11; 26° 23' : 76° 41'), Panna shales. A. M. H., **M**, XLV, 161.
- Khadbeli, *Chhindwara* (55 K/14; 21° 45' : 78° 52'), altered dolomitic marble. E. H. P., **R**, LIII, 23.
- Khadeji R., *Sind* (35 O/12; 25° 6' : 67° 31'), Gaj beds, section. W. T. B., **M**, XVII, 166.
- Khadiot, *Rawalpindi* (43 G/6; 33° 37' : 73° 24'), Chinji beds. S. N. W., **M**, LI, 355.
- Khaf, *Persia* (29 B/2; 34° 33' : 60° 8'), *Ostrea multicostata*. E. V., **R**, XXXVI 318.
- Khagan, *Hazara* (43 F/9; 34° 46' 30" : 73° 31'), junction of nummulitic and palæozoic rocks. R. L., **R**, XV, 20; **M**, XXII, 95.
- Khagurlar, *Waziristan* (38 L/3; 32° 19' : 70° 9'), Siwalik beds. M. S., **R**, LIV, 94.
- Khai, *Larkhana* (35 N/11; 26° 18' : 67° 34'), hot springs. T. O., **M**, XIX, 111.
- Khai Gali, *Punch* (43 G/13; 33° 51' : 73° 53'), U. Murree beds. D. N. W., **M**, LI, 270, 331.
- Khaibar, *Hunza* (42 L/14; 36° 35' : 74° 48'), *Fusulina* limestone (?). H. H. H., **R**, XLV, 298.
- Khair (Kayar), *Yeotmal* (56 I/13; 19° 54' : 78° 54'), hot springs. T. O., **M**, XIX, 144; L. L. F., **R**, L, 294.
- Khair Para, *W. Khandesh* (46 K/6; 21° 44' : 74° 26' 30"), hot spring. T. O., **M**, XIX, 134.
- Khaira (N), *Rewah* (63 L/3; 24° 25' : 82° 0'), quartz veins in L. Vindhyan. R. D. O., **M**, XXXI, 125.

- Khaira(s), *Rewah* (64 E/8 ; 23° 8' : 81° 27'), Karharbari plants. T. W. H. H., **R**, XIV, 313.
- Khairabad, *Mianwali* (38 P/9 ; 32° 53' : 71° 36'), Mesozoic beds, thickness. E. H. P., **M**, XL, 361=Khyrabad.
- Khairagali, *Hazara* (43 G/5 ; 33° 59' : 73° 24'), Trias-Eocene beds. A. B. W., **R**, VII, 71 ; Spiti shales, X, 130 ; nummulitic limestone. C. S. M., **M**, XXVI, 195=Kaira-gully.
- Khairbana, *Kawardha* (64 G/1 ; 21° 58' : 81° 10'), altered felsite. P. N. B., **R**, XXI, 58.
- Khairbana, *Korea* (64 I/8 ; 23° 13' 30" : 82° 16' 30"), coal seam. T. W. H. H., **M**, XXI, 241.
- Khairgaon, *Adilabad* (56 M/1 ; 19° 49' 30" : 79° 8' 30"), flexible sandstone. T. W. H. H., **M**, XIII, 16.
- Khairgura, *Adilabad* (56 M/8 ; 19° 14' : 79° 22'), coal seam. W. K., **M**, XVIII, 180.
- Khairi, *Chhindwara* (55 K/14 ; 21° 32' : 78° 50'), rose-quartz. L. I. F., **R**, XXXIII, 176 ; **M**, XXXVII, 212.
- Khairi, *Nagpur* (55 O/7 ; 21° 23' : 79° 17'), manganese-ore. L. I. F., **M**, XXXVII, 879.
- Khairi, *Narsinghpur* (55 J/10 ; 22° 44' : 78° 44'), Gondwana sandstone. E. H. P., **R**, LIX, 85 ; Archæan rocks. LXII, 131.
- Khairi Murat, *Attock*, oilfield, *see* Murat.
- Khairla, *Jodhpur* (45 G/1 ; 25° 52' : 73° 14'), Malani-Aravalli unconformity. T. D. L., **M**, XXXV, 20, 55.
- Khairmalia, *Mewar* (45 L/11 ; 24° 29' : 74° 32'), amygdaloid lava. E. H. P., **R**, LIX, 96.
- Khairna, *Naini Tal* (53 O/7 ; 29° 30' : 79° 29'), iron-ore. T. W. H. H., **R**, VII, 17 ; quartzite. C. S. M., **R**, XXIII, 28 ; microgranulitic rocks, petrology, 34.
- Khairpur, *Bahawalpur* (44 C/2 ; 29° 35' : 72° 14'), meteorite. T. O., **R**, VIII, 11 ; J. C. B., **M**, XLIII, 217.
- Khairpur, *Rewah* (63 L/6 ; 24° 34' : 82° 23'), L-U. Vindhyan junction. P. N. D., **R**, XXIX, 78.
- Khajnaur, *Dehra Dun* (53 F/15 ; 30° 16' : 77° 53'), geodetic station. R. D. O., **M**, XLII, 235.
- Khajra, *Balaghat* (64 B/16 ; 22° 14' : 80° 46'), bauxite. C. S. F., **M**, XLIX, 140.
- Khajuri, *Jubbulpore* (64 A/6 ; 23° 45' : 80° 24'), bauxite. C. S. F., **M**, XLIX, 118.
- Khajuri, *Sibi* (39 H/5 ; 28° 55' : 69° 26'), Nari marine beds with vertebrate fossils. G. E. P., **R**, XXXVII, 144.
- Khajuria, *Chota Udaipur* (46 F/15 ; 22° 20' 30" : 73° 57'), dolerite dyke. G. V. H., **R**, LIX, 351.
- Khaki Kotal, *Afghanistan* (38 A/3 ; 35° 21' : 68° 7'), Saighan series. H. H. H., **M**, XXXIX, 64.
- Khakya, *Tibet* (71 L/5 ; 28° 59' : 86° 27' 30"), basic dykes. A. M. H., **R**, LIV, 231.
- Khalandon, *Sirmur* (53 F/9 ; 30° 48' : 77° 37' 30"), Chail overthrust. L. I. F., **R**, LXV, 130.

- Khalchi, Khalsi (Kalatse), *Ladakh* (52 B/15; 34° 19' 30" : 76° 53'), Tertiary beds. R. L., **R**, XIII, 36; Hippuritic limestone, 37 note; XIV, 32; **M**, XXII, 102.
- Khalvad, *Idar* (46 E/1; 23° 48' : 73° 11' 30"), quartz-porphyry. C. S. M., **M**, XLIV, 126.
- Khamaria (N.), *Rewah* (63 L/3; 24° 22' : 82° 14'), L. Vindhyan outlier. R. D. O., **M**, XXXI, 130.
- Khamaria (S.), *Rewah* (64 E/15; 23° 27' : 81° 53'), coal seams. T. W. H. H., **M**, XXI, 241.
- Khamba, *Bhandara* (64 C/4; 21° 10' : 80° 2' 30"), iron-ore. L. L. F., **R**, LXV, 51.
- Khamba dzong, *Tibet* (77 D/11; 28° 17' : 88° 32'), Jurassic and Cretaceous beds, fossils. H. H. H., **R**, XXXII, 163, 164=Kampa dzong.
- Khambalia, *Kathiawar* (41 F/12; 22° 12' : 69° 39'), boring for water. E. H. P., **R**, LX, 56.
- Khamdan, *Afghanistan* (33 E/13; 35° 47' : 65° 50'), Cretaceous, section. C. L. G., **R**, XIX, 253.
- Khameria, *Charkari* (63 D/5; 24° 47' : 80° 19' 30"), diamond workings. E. V., **R**, XXXIII, 286=Kumerea.
- Khamerji, *Rewah* (63 H/14; 24° 31' : 81° 54'), gorge, diversion of drainage. R. D. O., **M**, XXXI, 50.
- Khamir, *Persian Gulf* (18 N/9; 26° 57' 30" : 55° 36'), geology and sulphur deposits. G. E. P., **M**, XXXIV, pt. 4, 102, 155 (fig. & Pl. xiv); XLVIII, pt. 2, *passim* (fig. & Pl. xv); **R**, LIII, 349 (Pl. xxiv).
- Khammamet, *Warangal* (65 C/4; 17° 15' : 80° 9'), gneissose granite. R. B. F., **R**, XVIII, 15=Kummumet.
- Khammaria, *Seoni* (55 N/10; 22° 34' : 79° 42'), Lameta beds. H. H. H., **R**, XLIV, 36.
- Khampel, *Indore* (55 B/2; 22° 37' : 76° 3'), sub-recent 'concrete'. T. H. H., **R**, XXXV, 57.
- Khanai, *Quetta-Pishin* (34 N/3; 30° 30' : 67° 7'), Siwalik conglomerate. R. D. O., **R**, XXV, 37.
- Khanak, *Hissar* (44 P/13; 28° 54' 30" : 75° 52'), granite, petrology. C. A. M., **R**, XVII, 113.
- Khananahalli, *Bellary* (48 N/13; 14° 53' : 75° 56'), Dharwar conglomerates. J. M. M., **R**, XXXIV, 109.
- Khanapur, *Belgaum* (48 I/10; 15° 38' : 74° 31'), granitoid gneiss. R. B. F., **M**, XII, 43; kaolin. E. H. P., **R**, LIII, 17.
- Khand, *Chota Udaipur* (46 F/14; 22° 32' 30" : 73° 45' 30"), cleavage in Champaner slates. G. V. H., **R**, LIX, 349.
- Khanda, *Singbhum* (73 F/5; 22° 47' 30" : 85° 16'), epidosite. J. A. D., **M**, LIV, 93.
- Khandala, *Nagpur* (55 O/7; 21° 20' : 79° 25' 30"), rhodonite. L. L. F., **M**, XXXVII, 141; manganese-ore, 932.
- Khandar, *Punch* (43 K/3; 33° 29' : 74° 6'), Jurassic-Eocene section, bauxite. D. N. W., **M**, LI, 323 (Pl. x, figs. 4, 5).
- Khandauli hill, *Hazaribagh* (72 L/8; 24° 14' : 86° 20'), trap dykes. T. W. H. H., **M**, VII, 216.

- Khandela, *Jaipur* (45 M/10; 27° 36' : 75° 30'), trap flows, Alwar series. C. A. H., **R**, XIV, 287; Ajabgarh quartzites and schists. A. M. H., **R**, LIV, 376.
- Khandi, *Chota Udaipur* (46 F/15; 22° 29' : 73° 48' 30'), Champaner quartzite. G. V. H., **R**, LIX, 345; dam-site, 356.
- Khandiol, *Idar* (46 E/2; 23° 42' : 73° 3' 30'), quartz-porphyry. C. S. M., **M**, XLIV, 126.
- Khandmin, *Mewar* (46 E/9; 23° 57' 30" : 73° 39'), steatite. L. L. F., **R**, LXV, 67.
- Khandra Buru, *Ranchi* (73 F/13; 22° 53' : 85° 46'), inclusions in quartzite. J. A. D., **M**, LIV, 27.
- Khandwa, *Nimar* (55 C/5; 21° 50' : 76° 21'), earthquake, 1897. R. D. O., **M**, XXIX, 37.
- Khaneh Zinian, *Persia* (17 C/2; 29° 41' : 52° 9'), shelly limestone, Fars series. G. E. P., **M**, XXXIV, pt. 4, 77.
- Khangma, *Tibet* (77 H/10; 28° 33' : 89° 41'), hot springs. H. H. H., **M**, XXXVI, 137; Jurassic fossils, 158=Kangma.
- Khangoi, *Manipur* (83 K/8; 25° 4' : 94° 25'), limestone. R. D. O., **M**, XIX, 220.
- Khangta, *Jodhpur* (45 F/10; 26° 32' 30" : 73° 38'), Jalor granite. A. M. H., **R**, LXV, 469; Vindhyan-granite contact, 474 (Pl. xxii, fig. 1).
- Khan-i-Kuh, *Persia* (24 B/16; 30° 3' : 56° 45'), volcanic rocks, U. Cretaceous. G. E. P., **M**, XLVII, pt. 2, 67, 68.
- Khan-i-Surkh, *Persia* (24 C/1; 29° 52' : 56° 10'), volcanic rocks, Pliocene. G. H. T., **R**, LIII, 69; G. E. P., **M**, XLVIII, pt. 2, 92.
- Khanki, *Gujranwala* (43 H/15; 32° 24' : 73° 58'), Kangra earthquake, 1905, fissures. C. S. M., **M**, XXXVIII, 204 (Pl. xxvi).
- Khanna, *Rawalpindi* (43 G/2; 33° 38' : 73° 7' 30"), Artesian basin. E. H. P., **R**, LX, 74; L. L. F., **R**, LXV, 70.
- Khanog, *Patiala* (53 F/1; 30° 54' : 77° 7'), Krol series. G. E. P., **M**, LIII, 11.
- Khanozai, *Quetta-Pishin* (34 N/6; 30° 37' : 67° 19'), chromite. E. V., **A. R.**, 1903, 9.
- Khanpur, *Jammu* (43 L/13; 32° 47' : 74° 53' 30"), *Parreyssia*. B. P., **R**, LX, 312, (Pl. xxv, figs. 6-8).
- Khanshinong, *Jaintia Hills* (83 C/11; 25° 30' : 92° 31'), metamorphic rocks. T. D. L., **R**, XVI, 202.
- Khanu, *Persia* (25 E/9; 27° 57' : 57° 44' 30"), Hatat series, Archæan. G. E. P., **M**, XLVIII, pt. 2, 6.
- Khapa, *Hoshangabad* (55 J/9; 22° 49' : 78° 37'), boring for coal. H. B. M., **R**, VIII, 68; X, 47; XIV, 210; E. J. J., **M**, XXIV, 10; R. R. S., **M**, XLI, 91.
- Khapa, *Nagpur* (55 K/15; 21° 25' : 78° 59'), Archæan quartzites and schists. E. H. P., **R**, LIII, 25.
- Khar (Khurma Kur), *Ladakh* (52 G/6; 33° 37' 30" : 77° 29' 30"), U. Trias. F. S., **M**, V, 344; C. D., **M**, XXXVI, 317.
- Khar, *Spiti* (52 L/4; 32° 1' 30" : 78° 4'), Triassic fossils. F. S., **M**, V, 48; Carboniferous-Rhætic beds. C. L. G., **M**, XXIII, 221 (Pl. v); Muth quartzite. H. H. H., **M**, XXXVI, 43.
- Khara, *Balaghat* (64 C/5; 21° 58' : 80° 16'), manganese-ore. H. H. H., **R**, XLVII, 21.

- Kharag I., *Persian Gulf* (10 K/4;  $29^{\circ} 14' : 50^{\circ} 14'$ ), Miocene fossils. W. T. B., **R**, V, 45; G. E. P., **M**, XXXIV, pt. 4, 41-44.
- Kharagdiha, *Hazaribagh* (72 L/3;  $24^{\circ} 25' : 86^{\circ} 10'$ ), calderite. L. L. F., **M**, XXXVII, 185, 616.
- Kharaghoda, *Ahmedabad* (41 M/12;  $23^{\circ} 11' : 71^{\circ} 44'$ ), salt manufacture. E. H. P., **R**, LVI, 33; W. K. C., **R**, LVII, 271.
- Kharagpur, *Midnapore* (73 N/7;  $22^{\circ} 20' : 87^{\circ} 19'$ ), earthquake, 1897, time record. R. D. O., **M**, XXIX, 67.
- Kharak, *Hundes* (52 L/11;  $32^{\circ} 19' : 78^{\circ} 39'$ ), granite. H. H. H., **M**, XXXVI, 97.
- Kharakhpur, *Monghyr* (72 K/12;  $25^{\circ} 7' : 86^{\circ} 33'$ ), slate quarries. T. H. H., **R**, XXXIX, 272=Kurruckpur.
- Kharala, *Attock* (43 C/10;  $33^{\circ} 32' : 72^{\circ} 36'$ ), oil concession. E. H. P., **M**, XL, 392.
- Kharang, *Rawalpindi* (43 G/6;  $33^{\circ} 33' : 73^{\circ} 22'$ ), U. Siwalik overlap. D. N. W., **M**, LI, 361.
- Kharanji, *Patiala* (53 F/1;  $30^{\circ} 56' : 77^{\circ} 11'$ ), Blaini series, section. G. E. P., **M**, LIII, 19.
- Kharara, *Rewah* (63 H/8;  $24^{\circ} 4' : 81^{\circ} 15'$ ), U. Vindhyan outlier. R. D. O., **R**, XXVIII, 141 (Pl. vi, fig. 1); **M**, XXXI, 24, 112, 115 (fig.).
- Kharari R., *Las Bela* (35 K/13;  $25^{\circ} 53' : 66^{\circ} 46'$ ), prehnite. E. V., **R**, XXXVIII, 45.
- Kharashia, *Kathiawar* (46 C/2;  $21^{\circ} 33' 30'' : 72^{\circ} 14' 30''$ ), agatiferous conglomerate. F. F., **M**, XXI, 109.
- Khar-baggar, *Almora* (53 O/13;  $29^{\circ} 59' 30'' : 79^{\circ} 56'$ ), sulphurous spring. T. W. H. H., **R**, XI, 183.
- Kharbasiya, *Garhwal* (53 N/13;  $30^{\circ} 52' 30'' : 79^{\circ} 50'$ ), Haimanta shales, fossils. C. L. G., **M**, XXIII, 52, 95.
- Khardeola, *Mewar* (45 L/7;  $24^{\circ} 28' : 74^{\circ} 29' 30''$ ), Delhi quartzite. C. A. H., **R**, XIV, 294; grits, ? Aravalli. E. H. P., **R**, LIX, 96.
- Kharder, *Jhelum* (43 D/14;  $32^{\circ} 44' : 72^{\circ} 47' 30''$ ), anticline in Nummulitic series. L. L. F., **R**, LXV, 117.
- Khareean, *Gujrat* (43 H/13;  $32^{\circ} 49' : 73^{\circ} 52'$ ), U. Siwalik beds. A. B. W., **R**, VIII, 46.
- Khargaon, *Korea* (64 I/8;  $23^{\circ} 6' : 82^{\circ} 23'$ ), Archæan inlier. L. L. F., **M**, XLI, 161.
- Khargaon, *Udaipur*, C. P. (64 N/3;  $22^{\circ} 23' : 83^{\circ} 7'$ ), coal seams. V. B., **R**, XV, 113.
- Khargaona, *Surguja* (64 M/3;  $23^{\circ} 18' : 83^{\circ} 11' 30''$ ), coal seam. V. B., **R**, VI, 34.
- Kharghazha, *D. I. Khan* (39 I/3;  $31^{\circ} 27' : 70^{\circ} 2'$ ), Eocene fossils. T. D. L., **R**, XXVI, 84.
- Khargin Dara, *Afghanistan* (33 M/8;  $35^{\circ} 12' : 67^{\circ} 24'$ ), Fusulina limestone to Cretaceous. H. H. H., **M**, XXXIX, 59 (fig. & Pl. xiii); conglomerate, Doab series, 60.
- Kharihar, *Bhagalpur* (72 L/13;  $24^{\circ} 50' : 86^{\circ} 46'$ ), lead-ore. L. L. F., **R**, LIII, 282.



- Kharkan, *Sirmur* (53 F/9; 30° 46' : 77° 41' 30"), Mandhali series. G. E. P., **M**, LIII, 39.
- Kharla, *Rewah* (64 E/11; 23° 17' : 81° 37' 30"), coal seam. T. W. H. H., **M**, XXI, 241.
- Kharlachi, *Kurram* (38 G/13; 33° 50' : 69° 57'), water-supply. E. H. P., **R**, LX, 72.
- Kharodi (Karodivadi), *Bombay* (47 A/16; 19° 11' 30' : 72° 49'), granophyric trachyte. M. S. K., **R**, LXII, 371.
- Kharpa, *Attock* (43 C/3; 33° 17' : 72° 12'), oil concession. E. H. P., **M**, XL, 408.
- Kharsali, *Tehri* (53 J/5; 30° 57' : 78° 27'), hot springs. T. O., **M**, XIX, 123.
- Kharsawan, *Eastern States* (73 F/13; 22° 47' 30" : 85° 49'), copper-ore. V. B., **M**, XVIII, 131, 144; granite-gneiss. J. A. D., **M**, LIV, 103.
- Kharta, *Tibet* (71 P/8; 28° 5' : 87° 18'), biotite-gneiss. A. M. H., **R**, LIV, 220.
- Kharuta, *Patiala* (53 E/4; 31° 7' : 77° 3'), Jutogh overthrust. G. E. P., **M**, LIII, 109.
- Kharwa, *Ajmer* (45 J/8; 26° 12' : 74° 27'), marble. T. H. H., **R**, XXXIX, 258; pyrolusite. L. L. F., **M**, XXXVII, 1157.
- Kharwar (district), *Afghanistan* (38 C/14; 33° 40' : 68° 55'), metamorphic rocks. C. L. G., **R**, XXV, 77.
- Kharzan, *Kalat* (34 P/4; 28° 3' : 67° 7'), Hemipneustes beds. E. V., **R**, XXXVI, 179.
- Kharzar, *Afghanistan* (38 B/2; 34° 38' 30" : 68° 6' 30"), quartzite resembling hematite. H. H. H., **M**, XXXIX, 72.
- Khasimara, *Khasi Hills* (78 O/12; 25° 11' : 91° 31'), oil seepage. E. H. P., **M**, XL, 311=Telcherra.
- Khaspur, *Patiala* (53 D/4; 28° 7' 30" : 76° 9'), building stone. P. N. B., **R**, XXXIII, 61.
- Khatan, *Sibi* (39 C/6; 29° 34' : 68° 28' 30"), petroleum. H. B. M., **R**, XIX, 201; R. A. Townsend, **R**, XIX, 204 (Pl. vi, fig. 4); W. K., **R**, XXII, 8; analysis. T. H. H., **R**, XXIV, 90=Khattan.
- Khatangkudar, *Gangpur* (73 B/15; 22° 17' : 84° 59' 30"), limestone. E. H. P., **R**, LXII, 57.
- Khatkar, *Bundi* (45 O/14; 25° 30' 30" : 75° 51'), Samria shales. A. L. C., **R**, LX, 176.
- Khatkhura, *Ranchi* (73 F/2; 22° 38' : 85° 4'), volcanic focus. J. A. D., **M**, LIV, 87.
- Khatola, *Jubbulpore* (64 A/3; 23° 28' : 80° 7'), manganese-ore. P. N. B., **R**, XXI, 75, 83; L. L. F., **M**, XXXVII, 828=Kuthola.
- Khattai, *Rewah* (63 L/10; 24° 32' : 82° 34'), L. Vindhyan limestone. R. D. O., **M**, XXXI, 163.
- Khattali, *Ali-Rajpur* (46 J/11; 22° 21' : 74° 31' 30"), crystalline limestone. P. N. B., **M**, XXI, 8.
- Khattan, *Sibi* (39 C/6; 29° 34' : 68° 28' 30"), Dunghan series. R. D. O., **R**, XXIII, 94; Spintangi series, section, 97; petroleum, 104; gypsum, 109; coal seam. XXV, 23; R. R. S., **M**, XLI, 31=Khatan.
- Khatu, *Jodhpur* (45 I/8; 27° 7' 30" : 74° 19'), Aravalli-Vindhyan contact. C. A. H., **R**, XIV, 300; T. D. L., **M**, XXXV, 26; A. M. H., **R**, LXV, 472 (Pl. xxiii).

- Khaung-ngo (Kauk-ngo), *U. Chindwin* (83 P/1; 24° 48' : 95° 11' 30"), alluvial gold. H. S. B., **R**, XLIII, 255.
- Khaur, *Attock* (43 C/8; 33° 15' : 72° 27' 30"), oilfield. H. H. H., **R**, XLVII, 23; E. H. P., **M**, XL, 403 (Pls. lxxviii, lxxviii-A).
- Khe Chaung, *Mergui* (96 M/2; 11° 37' : 99° 5'), tin-ore. E. H. P., **R**, LVI, 34.
- Khed, *Ratnagiri* (47 G/6; 17° 43' : 73° 24'), hot spring. T. O., **M**, XIX, 106; laterite. C. S. F., **M**, XLIX, 94.
- Khed Brahma, *Idar* (45 H/4; 24° 2' 30" : 73° 3'), calc-gneiss. C. S. M., **M**, XLIV, 13, 17, 48 (Pl. i, fig. 2); syenite-aplite, 37; allanite, 40, 150 (Pl. xi, fig. 1); olivine-dolerite, 131 (Pl. xvi, fig. 1).
- Khedwa, *Idar* (45 H/4; 24° 7' : 73° 6'), graphic granite. C. S. M., **M**, XLIV, 41.
- Khejurdari, *Singhbhum* (73 J/11; 22° 24' : 86° 41'), magnetite-apatite. H. H. H., **R**, LII, 305.
- Khelat (Kalat), *Baluchistan* (34 K/12; 29° 2' : 66° 34' 30"), Mesozoic fossils. R. D. O., **R**, XXX, 5=Kelat.
- Khenia, *Bundi* (45 O/7; 25° 20' : 75° 23'), olivine-dolerite, Gwalior series. A. L. C., **R**, LX, 167; L. Bhandar limestone, 174; Vindhyan boundary fault, 186; iron-ore, 191.
- Khenigiri, *Garro Hills* (78 K/7; 25° 19' 30" : 90° 27'), Tertiary fossils. T. D. L., **R**, XX, 42.
- Kheradi, *Idar* (46 E/6; 23° 41' 30" : 73° 18'), white pyroxene-rock. C. S. M., **M**, XLIV, 67.
- Kheragur (Khairagarh), *Agra* (54 F/13; 26° 56' : 77° 49'), meteorite. J. C. B., **M**, XLIII, 218.
- Kherband, *Panna* (63 D/2; 24° 41' : 80° 9'), laterite. C. S. F., **M**, XLIX, 107.
- Khercha (Kherancha), *Idar* (46 E/6; 23° 39' 30" : 73° 21'), chlorite and sericite schist. C. S. M., **M**, XLIV, 64; Delhi quartzite, 96 (fig. & Pl. xii, fig. 6).
- Kherdi, *Kathiawar* (41 N/3; 22° 23' : 71° 9'), porcellaneous shale, Intertrappean. F. F., **M**, XXI, 99.
- Kheria Kund, *Dhar* (55 B/7; 22° 29' : 76° 19'), wad. L. L. F., **M**, XXXVII, 675.
- Kheri-ki-Dhar, *Sirmur* (53 F/5; 30° 50' : 77° 21'), olivine-dolerite. G. E. P., **M**, LIII, 56.
- Kherim Pani, *Lakhimpur* (83 M/15; 27° 27' : 95° 55'), alluvial gold. J. M. M., **R**, XXXI, 217.
- Kherod, *Idar* (45 H/4; 24° 14' : 73° 1'), amphibolite limestone. C. S. M., **M**, XLIV, 49 (figs. & Pl. xi, fig. 2).
- Kherwan, *Amjhera* (46 J/11; 22° 21' : 74° 43'), Cretaceous echinoidea. P. M. D., **R**, XX, 90, 92.
- Kherwara, *Mewar* (46 E/9; 23° 59' : 73° 36'), magnesian rocks. E. H. P., **R**, LXIII, 142; L. L. F., **R**, LXV, 141.
- Khesmi, *Hazaribagh* (72 H/15; 24° 25' : 85° 47'), cerussite. F. R. M., **R**, VII, 35.
- Khet, *Punch* (43 K/5; 33° 51' : 74° 16'), Gondwana outlier. D. N. W., **M**, LI, 244.
- Khetri, *Jaipur* (44 P/16; 28° 0' : 75° 47'), copper-ore. C. A. H., **R**, XIII, 245; H. H. H., **R**, XLIV, 19; A. M. H., **R**, LIV, 386 (Pl. xxv); cobaltite and dauphite. F. R. M., **R**, XIV, 190; meteorite. J. C. B., **M**, XLIII, 218.

- Khewalsir, *Jaisalmer* (40° 16' ; 27° 14' 30" : 70° 52'), Nummulitic beds. R. D. O., **R**, XIX, 159.
- Khewra, *Jhelum* (43 H/2 ; 32° 38' : 73° 1'), salt mines. A. B. W., **M**, XIV, 158, 285 (Pls. i & xvii, fig. 24) ; trap rock, 75 ; E. H. P., **M**, XL, 474 ; Cambrian beds, section. F. N., **R**, XXVII, 81 ; position of Red Marl. C. S. M., **R**, XXIV, 31 (Pl. iii, fig. 3) ; potash salts. Tschermak, **R**, VII, 64 ; W. K. C., **R**, XLIV, 243 (Pls. xxvii, xxviii) ; M. S., **R**, L, 52 ; blödite. C. S. F., **R**, XLII, 34 (Pl. x) ; subsidence. E. H. P., **R**, LX, 43 ; C. S. F., **R**, LXI, 157 (Pl. v) ; reserves of rock-salt. L. L. F., **R**, LXV, 65 ; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 217.
- Khichri R., *Naini Tal* (53 O/3 ; 29° 23' : 79° 12'), gorge in Siwaliks. C. S. M., **M**, XXIV, 96.
- Khidoni, *Jodhpur* (45 G/4 ; 25° 14' : 73° 2'), Aravalli series, junction with gneiss. C. A. H., **R**, XIV, 300.
- Khidwal, *Attock* (43 C/11 ; 33° 23' 30" : 72° 35'), U. Murree stage, fossils. E. H. P., **R**, LX, 106.
- Khijaria, *Kathiawar* (41 J/10 ; 22° 40' : 70° 42' 30"), moss agate. F. F., **M**, XXI, 134.
- Khijaria, *Santal Parganas* (72 P/7 ; 24° 15' : 87° 15' 30"), fire-clay. M. S., **R**, XXXVIII, 142.
- Khila Ali Khan, *Sibi* (34 N/12 ; 30° 14' : 67° 32'), coal seam. W. K., **R**, XXII, 150 ; R. R. S., **M**, XLI, 32.
- Khila Hakim Khan, *Sibi* (34 N/11 ; 30° 17' : 67° 31'), coal seam. W. K., **R**, XXII, 149 ; R. R. S., **M**, XLI, 32=Ka'la Hakim Khan.
- Khimpara, *Merwara* (45 J/8 ; 26° 5' : 74° 26'), granite intrusions. C. A. H., **R**, XIV, 285.
- Khimuana, *Faridkot* (44 N/3 ; 30° 22' : 75° 1'), geodetic station. R. D. O., **M**, XLII, 232.
- Khinaman, *Persia* (24 B/7 ; 30° 26' 30" : 56° 30'), Oman series-Cretaceous, section. G. E. P., **M**, XLVIII, pt. 2, 56 (fig.).
- Khingil range, *Afghanistan* (38 F/6 ; 34° 38' : 69° 26'), Carboniferous to Trias. H. H. H., **M**, XXXIX, 22.
- Khinjan, *Afghanistan* (38 A/14 ; 35° 36' : 68° 54'), Saignan series to Cretaceous. H. H. H., **M**, XXXIX, 65.
- Khipro, *Thar Parkar* (40 G/5 ; 25° 50' : 69° 22' 30"), soda industry. G. C., **M**, XLVII, 265.
- Khirasra, *Kathiawar* (41 K/5 ; 21° 57' : 70° 18'), marble. F. F., **M**, XXI, 136.
- Khirgi, *Waziristan* (38 L/3 ; 32° 18' 30" : 70° 12'), Siwalik conglomerates. M. S., **R**, LIV, 92, 94 ; reservoir site. E. H. P., **R**, LXIII, 65.
- Khirgunga, *Kulu* (53 E/5 ; 31° 59' : 77° 29'), hot spring. T. O., **M**, XIX, 122.
- Khirkhi, *Seoni* (55 O/10 ; 21° 43' : 79° 37'), manganese-ore. H. H. H., **R**, XLIV, 21.
- Khirsadob, *Chhindwara* (55 J/16 ; 22° 9' 30" : 78° 46' 30"), Lameta grits. E. H. P., **R**, LVIII, 57.
- Khirsur hill, *Bijapur* (47 P/16 ; 16° 11' : 75° 45'), L. Kaladgi beds, section. R. B. F., **M**, XII, 79.
- Khirtal, *Alwar* (54 A/9 ; 27° 48' : 76° 38'), anticlines in Alwar series. A. M. H., **M**, XLV, 38 ; granite, 97.

- Khiweroa (Kyi-we), *Boronga Is.* (84 H/4; 20° 0' : 93° 3'), oil pools. F. R. M., R, XI, 219.
- Kho, *Alwar* (54 A/8; 27° 11' : 76° 23'), marble. C. A. H., R, X, 85, 92; XIII, 250; A. M. H., M, XLV, 26.
- Kho R., *Garhwal* (53 K/9; 29° 50' : 78° 36'), Nahan beds. C. S. M., M, XXIV, 145.
- Khoaspura, *Jodhpur* (45 F/10; 26° 31' : 73° 45'), Vindhyan sandstones. A. M. H., R, LXV, 476.
- Khodabad, *Hunza* (42 L/14; 36° 41' : 74° 49'), quartzites and slates. H. H. H., R, XLV, 299.
- Khodargaon, *Rewah* (64 A/15; 23° 22' : 80° 59'), coal seam. T. W. H. H., M, XXI, 176, 241; R. R. S., M, XLI, 78.
- Khodi, *Bundi* (45 O/14; 25° 44' : 75° 46'), trap, Gwalior series. A. L. C., R, LX, 167.
- Khodo (Khudia) R., *Manbhum* (73 I/5; 23° 46' : 86° 17'), Barakar stage, section. T. W. H. H., M, V, 284; coal seams, 329.
- Kohar, *Banda* (63 G/8; 25° 6' 30" : 81° 28'), meteorite. G. C., R, XLII, 274 (Pls. xli & xlii, fig. 1); J. C. B., M, XLIII, 219.
- Khohara, *Rewah* (64 E/14; 23° 31' : 81° 47'), coal seam. T. W. H. H., M, XXI, 191, 242.
- Khohri, *Palamau* (72 D/4; 24° 2' : 84° 0'), mica. L. L. F., R, LXV, 57, 76.
- Khoja Bogra, *Afghanistan* (38 F/2; 34° 35' : 69° 9' 30"), bowenite. H. H. H., M, XXXIX, 18.
- Khojagar, *Afghanistan* (33 N/13; 34° 52' : 67° 50'), Fusulina limestone. H. H. H., R, XXXVIII, 230=Khawajagar.
- Khojak range, *Quetta-Pishin* (34 J/9; 30° 50' : 66° 38'), occurrence of nummulites. R. D. O., R, XXX, 5=Kojak range.
- Kholi Biaz, *Afghanistan* (29 J/11; 34° 26' : 62° 44'), Jurassic plant beds, section. C. L. G., R, XIX, 53.
- Khomal, *Sirohi* (45 D/13; 24° 52' : 72° 48'), dellenite, twinning of feldspars. A. L. C., R, LXV, 163, 173.
- Khona Oopalapad, *Anantapur* (57 E/16; 15° 6' : 77° 54'), supposed occurrence of petroleum. R. B. F., R, IV, 17=Cona Oopalapad.
- Khond, *Surghuja* (64 I/14; 23° 44' : 82° 49'), Mahadeva plants. C. L. G., M, XV, 150; trap dyke, 153 (fig.).
- Khone Khas, *Mirzapur* (63 P/7; 24° 26' : 83° 21'), L. Vindhyan beds, section. F. R. M., M, VII, 33 (fig.).
- Khongbu, *Tibet* (78 E/1; 27° 46' : 89° 2'), pre-Cambrian rocks (?). H. H. H., R, XXXII, 162; M, XXXVI, 141, 187.
- Khongyi, *Henzada* (85 N/3; 18° 18' 30" : 95° 3' 30"), mud volcano. E. H. P., M, XL, 177.
- Khoorum, *Rawalpindi* (43 C/14; 33° 44' : 72° 52'), Jurassic beds, section. C. S. M., M, XXVI, 216.
- Khor Fakkan, *Oman* (25 C/7; 25° 20' : 56° 23'), igneous rocks, Oman series. G. E. P., M, XXXIV, pt. 4, 12, 99.
- Khor Makta'a Tubii, *Persian Gulf* (11 J/12; 26° 12' : 50° 34'), gypsiferous limestone. G. E. P., M, XXXIV, pt. 4, 118.

- Khorabad (Karabad), *Santal Parganas* (73 M/1; 23° 49' : 87° 6'), coal seams. W. T. B., **M**, III, 47.
- Khoradih, *Nagpur* (55 O/4; 21° 15' : 79° 6'), quartzites and schists. E. H. P., **R**, LII, 25=Khorari.
- Khorak-i-Baba, *Afghanistan* (33 M/10; 35° 33' : 67° 40'), Jurassic beds with alum shales. C. L. G., **R**, XIX, 248=Ab-i-Khorak.
- Khorak-i-paian, *Afghanistan* (33 M/10; 35° 33' : 67° 42'), fossil plants, Jurassic. H. H. H., **M**, XXXIX, 70.
- Khorari, *Nagpur* (55 O/4; 21° 15' : 79° 6'), marble. L. L. F., **R**, L, 277=Khoradih.
- Khorawul, *Jubbulpore* (55 M/15; 23° 21' 30" : 79° 58' 30"), hematite-quartzites, Lora series. P. N. B., **R**, XXII, 218; L. L. F., **M**, XXXVII, 806.
- Khorbahar, *Surguja* (64 J/9; 22° 54' 30" : 82° 39'), coal seam. R. R. S., **M**, XLI, 82.
- Khorband, *Singhbhum* (73 F/16; 22° 14' : 85° 52'), granite dome. L. A. N., **R**, LXV, 516.
- Khori, *Alwar* (54 A/6; 27° 37' : 76° 18' 30"), Mandan series. A. M. H., **M**, XLV, 86.
- Khori, *Mewar* (45 L/10; 24° 34' 30" : 74° 34'), basal beds, Vindhyan. E. H. P., **R**, LIX, 97.
- Khorkun, *Ladakh* (52 A/15; 35° 19' : 76° 45'), hot spring, sulphurous. T. O., **M**, XIX, 125; R. L., **M**, XXII, 44.
- Khosra R., *D. G. Khan* (39 K/2; 29° 37' : 70° 8'), fuller's earth. W. T. B., **M**, XX, 219.
- Khosra-ka-wahi, *Las Bela* (35 N/8; 26° 0' 30" : 67° 15'), hot spring. T. O., **M**, XIX, 111.
- Khost, *Sibi* (34 N/12; 30° 13' 30" : 67° 34'), coalfield. W. K., **R**, XXII, 7, 151; C. L. G., **R**, XXVI, 129, 133; R. R. S., **M**, XLI, 31.
- Khotaka, *Shahpur* (43 D/6; 32° 37' : 72° 17'), lake. T. D. L., **R**, XL, 42 (Pl. v).
- Khodzdar, *Kalat* (35 I/9; 27° 48' : 66° 37'), Cretaceous-Eocene beds, section. W. T. B., **M**, XVII, 43.
- Khrew (Khreuh), *Kashmir* (43 J/16; 34° 1' : 75° 0'), M. and U. Trias. C. S. M., **R**, XL, 249 (Pl. xxxvii).
- Khuddai, *Hazribagh* (73 E/1; 23° 56' 30" : 85° 0' 30"), Talchir beds, section. A. J., **M**, LII, 9 (fig.).
- Khukha, *Jhelum* (43 G/12; 33° 0' 30" : 73° 33'), water-supply. L. L. F., **R**, LXV, 69.
- Khulna, *Bengal* (79 F/9; 22° 49' : 89° 34'), earthquake, 1897. P. N. B., **M**, XXIX, 315; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 261; Calcutta earthquake, 1906. **R**, XXXVI, 225.
- Khun Surkh, *Persian Gulf* (25 A/4; 27° 9' : 56° 7'), Fars series, fossils. G. E. P., **M**, XLVIII, pt. 2, 94.
- Khunajhir Kalan, *Chhindwara* (55 K/13; 21° 59' : 78° 55'), basal flow, Deccan trap. L. L. F., **R**, XLVII, 91.
- Khunda, *Banswara* (46 I/7; 23° 19' : 74° 16'), manganese-ore. L. L. F., **M**, XXXVII, 1158.
- Khunmu, *Kashmir* (43 J/16; 34° 3' 30" : 74° 57'), Zewan beds, section. R. L., **R**, XIV, 25; **M**, XXII, 131; R. D. O., **R**, XXXI, 7; Gangamopteris beds.

- F. N., **A. R.**, 1903, 23; T. H. H., **R.**, XXXII, 152; H. H. H., **R.**, XXXVI, 24 (Pls. v, vi); Muschelkalk, section. C. S. M., **R.**, XXXVII, 305 (fig.); **XL**, 252.
- Khuntapoda, *Keonjhar* (73 G/9; 21° 52' : 85° 36'), sub-acid dyke. E. H. P., **R.**, **LXI**, 98.
- Khutpani, *Singhbhum* (73 F/10; 22° 37' 30" : 85° 43'), shale included in trap. J. A. D., **M.**, **LIV**, 137.
- Khupena, *Hazaribagh* (73 E/5; 23° 46' : 85° 23'), coal seams. A. J., **M.**, **LII**, 74.
- Khura (Surajpura), *Orchha* (54 P/2; 24° 43' : 79° 10'), barytes. A. L. C., **R.**, **LX**, 431.
- Khura, *Shahpur* (43 D/2; 32° 32' : 72° 13'), *Richthofenia*. W. W., **R.**, **XVI**, 18 (Pl. i, fig. 7).
- Khurd Kabul, *Afghanistan* (38 F/7; 34° 23' : 69° 23'), metamorphic rocks. C. L. G., **R.**, **XXV**, 75; carbonaceous clay, Siwalik. H. H. H., **M.**, **XXXIX**, 39, 45.
- Khurd Kabul hill, *Afghanistan* (38 F/7; 34° 25' 30" : 69° 26'), Upper Palaeozoic limestone. H. H. H., **M.**, **XXXIX**, 18, 21; unconformity, 46, 73.
- Khurda Road, *Puri* (73 H/12; 20° 9' : 85° 43'), manganiferous khondalite. L. L. F., **M.**, **XXXVII**, 242.
- Khurdopin glacier, *Hunza* (42 P/11; 36° 24' : 75° 34'), movements of snout. K. M., **R.**, **LXIII**, 248 (Pl. vi, 14).
- Khurja, *Bulundshahr* (53 H/15; 28° 15' : 77° 51'), geodetic station. R. D. O., **M.**, **XLII**, 225.
- Khuropani (Karopani), *Jubbulpore* (64 A/7; 23° 22' : 80° 26'), basal beds, Lameta series. C. A. Matley, **R.**, **LIII**, 151.
- Khurpa Tal, *Naini Tal* (53 O/7; 29° 22' : 79° 27'), origin of lake. W. T., **R.**, **XIII**, 172.
- Khusak, Khussak, *Jhelum* (43 H/2; 32° 42' 30" : 73° 4'), Trilobite beds, Cambrian. C. S. M., **R.**, **XXIV**, 24 (Pls. i, ii, & v); F. N., **R.**, **XXVII**, 73; sections, 83—Kusak.
- Khush Ku, *Persia* (25 A/14; 27° 32' : 56° 47'), Fars series. G. E. P., **M.**, **XLVIII**, pt. 2, 100.
- Khuti, Khutti, *Ladakh* (43 M/11; 35° 28' 30" : 75° 42'), gneissic series, section. R. L., **R.**, **XIV**, 11; Triassic beds. **M.**, **XXII**, 188.
- Khuza Sar, *Waziristan* (38 L/3; 32° 24' 30" : 70° 6'), Murree series (?). M. S., **R.**, **LIV**, 94.
- Khwaja Kallandar, *Afghanistan* (29 J/9; 34° 47' : 62° 39'), *Ostrea multicostata*. C. L. G., **R.**, **XIX**, 65; E. V., **R.**, **XXXVI**, 318.
- Khwajaganj, *Afghanistan* (33 M/16; 35° 12' 30" : 67° 45'), Cretaceous beds. H. H. H., **M.**, **XXXIX**, 62 (Pl. vi).
- Khwajagar, *Afghanistan* (33 N/13; 34° 52' : 67° 50'), Fusulina limestone. H. H. H., **M.**, **XXXIX**, 27, 54 (Pl. viii, fig. 2)—Khojagar.
- Khyrabad, *Mianwali* (38 P/9; 32° 53' : 71° 36'), gypseous clay. A. B. W., **M.**, **XIV**, 116; Carboniferous-Eocene, section, 262=Khairabad.
- Khyrasol, *Birbhum* (73 M/5; 23° 47' : 87° 16'), supra-Panchet beds. W. T. B., **M.**, **III**, 138.
- Ki, *Spiti* (52 L/3; 32° 18' : 78° 1'), U. Trias. C. D., **M.**, **XXXVI**, 301 (fig.).
- Kiadigiri, *Raichur* (56 D/16; 16° 14' : 76° 57'), trap dyke. R. B. F., **M.**, **XII**, 59.

- Kiang-chu, *Ladakh* (52 G/16 ; 33° 12' : 77° 50'), Carboniferous rocks. R. L., **R**, XIII, 50.
- Kiangshisha, *Rupshu* (52 I/1 ; 32° 48' 30" : 78° 4'), Upper Triassic fossils. H. H. H., **M**, XXXVI, 93.
- Kiangur pass, *Almora* (62 B/2 ; 30° 40' : 80° 8'), inverted folding in Trias-Rhaetic beds. C. L. G., **M**, XXIII, 153 (fig. & Pl. ii, fig. 2).
- Kiar, *Simla* (53 F/1 ; 30° 58' 30" : 77° 9' 30"), Simla slates and Jaunsar series. G. E. P., **M**, LIII, 21.
- Kiarighat, *Patiala* (53 F/1 ; 31° 0' : 77° 5' 30"), Simla slates. G. E. P., **M**, LIII, 7, 11 ; overthrust fault, 10 ; Jaunsar conglomerate, 15--Keari and Kyari Ghat.
- Kibbanhalli, *Tumkur* (57 C/11 ; 13° 19' : 76° 39'), Dharwar schist and trap. R. B. F., **R**, XXI, 54.
- Kibber, *Spiti* (52 I/3 ; 32° 20' : 78° 1'), Spiti shales, fossils. F. S., **M**, V, 87 ; H. H. H., **M**, XXXVI, 85 ; U. Triassic beds. C. D., **M**, XXXVI, 301 (fig.).
- Kibiung R., *Shwebo* (84 N/13 ; 22° 53' : 95° 55'), coal seam. R. R. S., **M**, XLI, 71.
- Kichik Kundan glacier, *Ladakh* (52 I/12 ; 35° 12' : 77° 40'), condition in 1909. D. G. O., **R**, XI, 346 ; movements of snout. K. M., **R**, LXIII, 271 (Pl. vii, 30).
- Kichri, *Rewah* (64 E/15 ; 23° 28' : 81° 51'), coal seams. T. W. H. H., **M**, XXI, 192, 242.
- Kidarkanta, *Tehri* (53 I/4 ; 31° 1' 30" : 78° 10' 30"), geodetic station. R. D. O., **M**, XLII, 249.
- Kienlung, *Hundes* (62 A/12 ; 31° 3' : 80° 33'), hot spring. T. O., **M**, XIX, 128.
- Kifri, *Iraq* (2 B/14 ; 34° 40' : 44° 57'), 'coal' mines. E. H. P., **M**, XLVIII, 55.
- Kigwema, *Naga Hills* (83 K/2 ; 25° 36' : 94° 8'), high-level gravels. R. D. O., **M**, XIX, 229 (Pl. ii).
- Kila Nau, *Afghanistan* (29 N/1 ; 34° 50' 30" : 63° 7'), shell limestone, Jurassic. C. L. G., **R**, XVIII, 63.
- Kilakarai, *Ramnād* (58 K/16 ; 9° 14' : 78° 47'), 'quay' sandstone, sub-recent. R. B. F., **M**, XX, 70, 73.
- Kilan, *Punch* (43 G/14 ; 33° 42' 30" : 73° 47'), Siwalik dip-slopes and fossils. D. N. W., **M**, LI, 329.
- Kilandeo, *Betul* (55 J/4 ; 22° 14' : 78° 14'), Motur sandstones. E. H. P., **R**, LIX, 90.
- Kilar, *Chamba* (52 C/8 ; 33° 4' 30" : 76° 25'), granitoid gneiss. R. L., **R**, XI, 54, petrology. C. A. M., **R**, XVII, 54 ; Panjal slates. R. L., **M**, XXII, 246, 301.
- Kilavaladu, *Madura* (58 J/8 ; 10° 4' : 78° 25'), granite-gneiss. R. B. F., **R**, XII, 147.
- Kilif, *Afghan-Turkestan* (32 K/7 ; 37° 21' : 66° 16'), shelly limestone, Miocene. C. L. G., **R**, XIX, 257 ; *Ostrea multicosata*. E. V., **R**, XXXVI, 318.
- Killa Abdullah, *Afghanistan* (34 J/10 ; 30° 43' : 66° 38'), limestone, ? Cretaceous. C. L. G., **M**, XVIII, 39.
- Killanur, *S. Arcot* (58 M/6 ; 11° 39' 30" : 79° 18' 30"), Ariyalur fossils. H. F. B., **M**, IV, 147.

- Killiur, *Travancore* (58 H/3 ; 8° 16' : 77° 14'), Warkalli beds. R. B. F., **R**, XVI, 28.
- Killumallai, *Pudukkottai* (58 J/14 ; 10° 39' : 78° 53' 30"), granite tors. R. B. F., **R**, XII, 146.
- Kimehak, *Afghanistan* (38 A/16 ; 35° 3' : 68° 49'), metamorphic rocks. H. H. H., **M**, XXXIX, 49.
- Kimsi Buru, *Singhbhum* (73 F/10 ; 22° 32' 30" : 85° 39'), chromite. H. H. H., **R**, L, 10.
- Kin, *L. Chindwin* (84 J/9 ; 22° 46' : 94° 42'), oil seepages. E. H. P., **M**, XL, 145 ; sulphurous springs. **R**, LXIII, 54 ; Plateau gravels, 105.
- Kinari, *Punch* (43 K/1 ; 33° 51' 30" : 74° 15'), gneiss, Dogra Slate series. D. N. W., **M**, LI, 306.
- Kinbin, *Shwebo* (84 N/1 ; 22° 56' 30" : 95° 4' 30"), alluvial gold. E. H. P., **R**, LXIII, 36.
- Kinchinunga, *Sikkim* (78 A/2 ; 27° 42' : 88° 9'), crystalline rocks. H. H. H., **M**, XXXVI, 140, 182.
- Kindat, *U. Chindwin* (84 I/6 ; 23° 43' : 94° 26'), earthquake, 1897, time record. R. D. O., **M**, XXI, 67 ; Burma earthquake, 1912. J. C. B., **M**, XLII, 59.
- Kingriahi, *D. I. Khan* (38 P/4 ; 32° 14' : 71° 3'), Purple Sandstone-Jurassic, section. A. B. W., **M**, XVII, 280 (fig. 9) ; E. H. P., **M**, XL, 429.
- King's I., *Mergui* (95 L/W. ; 12° 30' : 98° 23'), tin-ore. T. H. H., **R**, XXXVIII, 56.
- Kinhii, *Balaghat* (64 C/6 ; 21° 37' : 80° 26'), manganese-ore. L. L. F., **M**, XXXVII, 693 (note).
- Kini, *Palamanu* (72 D/4 ; 24° 4' : 84° 1'), mica. L. L. F., **R**, LXV, 57, 76.
- Kiniya, *Belgaum* (48 I/5 ; 15° 46' : 74° 25' 30"), bauxite. C. S. F., **M**, XLIX, 66.
- Kinjirma, *Gangpur* (73 B/4 ; 22° 0' 30" : 84° 6'), marble and calc-schist. L. L. F., **R**, LXV, 73=Kujerna.
- Kinmungyon, *Minbu* (84 L/6 ; 20° 42' 30" : 94° 20'), Eocene-Miocene, section. C. P., **R**, XLV, 251 (Pl. xxv).
- Kinnowli (Kinlivli), *Thana* (47 E/7 ; 19° 21' : 73° 20'), volcanic cones. G. T. Clark, **R**, XIII, 71.
- Fin-u, *Shwebo* (84 N/9 ; 22° 46' : 95° 37'), soap-sand. E. H. P., **R**, LXIII, 54, 103.
- Kio, *Ladakh* (52 I/5 ; 34° 0' : 77° 16'), Eocene beds. R. L., **R**, XIII, 38 ; Carboniferous limestone, 49=Kew and Skiu.
- Kiogarh Chaldu pass, *Almora* (62 B/2 ; 30° 43' : 80° 13'), exotic block, 'Triassic. C. D., **M**, XXXVI, 335.
- Kiohsio, *N. Shan States* (93 B/14 ; 22° 37' : 96° 58'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 138.
- Kiol (Kowal), *Jammu* (43 K/11 ; 33° 21' 30" : 74° 39'), bituminous limestone, Eocene. R. L., **R**, IX, 160 ; **M**, XXII, 194 ; E. H. P., **M**, XI, 439 ; D. N. W., **M**, LI, 258.
- Kioto, *Spiti* (52 H/15 ; 32° 26' 30" : 77° 54'), *Dicroidium*. C. D., **M**, XXXVI, 316=Chiote.
- Kipar R., *Sibi* (39 C/1 ; 29° 54' : 68° 8'), oil boring site. R. D. O., **R**, XXIII, 58.
- Kiran, *Punch* (43 K/1 ; 33° 59' : 74° 11'), Panjal trap. D. N. W., **M**, LI, 297.



- Kirana, *Shahpur* (44 A/9;  $31^{\circ} 58' : 72^{\circ} 42'$ ), pyrolusite. L. L. F., **M**, XXXVII, 1156; geology of hills. A. M. H., **R**, XLIII, 230 (Pls. xxi, xxii).
- Kiranur, *Trichinopoly* (58 J/5;  $10^{\circ} 47' : 78^{\circ} 17'$ ), iolite. T. H. H., **R**, XXXIX, 248= Keeranore.
- Kirarama, *Sambalpur* (64 O/13;  $21^{\circ} 46' : 83^{\circ} 54'$ ), Talchir beds. V. B., **R**, VIII, 104; trap dyke, 118.
- Kirntal, *Rewah* (64 A/15;  $23^{\circ} 29' 30'' : 80^{\circ} 51'$ ), building stone. T. W. H. H., **M**, XXI, 221.
- Kiris, *Ladakh* (43 M/16;  $35^{\circ} 14' : 75^{\circ} 57'$ ), amethystine quartz with garnets. R. L., **R**, XIV, 7.
- Kirkavada, *Chota Udaipur* (46 F/15;  $22^{\circ} 25' : 73^{\circ} 53'$ ), granite boundary. G. V. H., **R**, LIX, 350.
- Kirkuk, *Iraq* (2 A/7;  $35^{\circ} 26' : 44^{\circ} 26'$ ), petroleum. E. H. P., **M**, XLVIII, 40 (fig. & Pl. v)—Kerkuk.
- Kirkumbady, *Chittoor* (57 O/10;  $13^{\circ} 40' : 79^{\circ} 31'$ ), fault. W. K., **M**, VIII, 181; trap dykes. XVI, 129, 166 (fig.)—Curumbode and Karkambadi.
- Kirpa, *Rawalpindi* (43 G/2;  $33^{\circ} 37' : 73^{\circ} 14'$ ), Kamhal beds. D. N. W., **M**, LI, 282, 347.
- Kirpiliyan, *Hazara* (43 B/15;  $34^{\circ} 18' : 72^{\circ} 51'$ ), alluvial gold. C. S. M., **M**, XXVI, 287.
- Kirram (Khiram), *Kashmir* (43 O/1;  $33^{\circ} 52' : 75^{\circ} 10' 30''$ ), Fenestella series. C. S. M., **R**, XL, 231.
- Kirrind (Karind), *Persia* (2 J/3;  $34^{\circ} 17' : 46^{\circ} 14'$ ), Miocene fossils. G. E. P., **M**, XXXIV, pt. 4, 22, 32.
- Kirta, Kirtha, *Bolan pass* (34 O/6;  $29^{\circ} 31' : 67^{\circ} 30'$ ), Eocene beds. C. L. G., **M**, XVIII, 28 (Pl. iii); W. T. B., **M**, XX, 172; boring for oil. R. D. O., **R**, XXIV, 5.
- Kirtamdih, *Ranchi* (73 F/13;  $22^{\circ} 59' : 85^{\circ} 50' 30''$ ), ultrabasic sills. J. A. D., **M**, LIV, 97.
- Kirwahi, *Korea* (64 J/7;  $23^{\circ} 20' : 82^{\circ} 19' 30''$ ), waterfall. T. W. H. H., **M**, XXI, 144 (frontispiece); L. L. F., **M**, XLI, 179 (Pl. xxviii); coal seams, 190, 217.
- Kirwari, *Alwar* (54 A/9;  $27^{\circ} 50' 30'' : 76^{\circ} 39'$ ), flagstone. A. M. H., **M**, XLV, 97; quartz veins, 98.
- Kisarac (Kosari), *Surguja* (64 I/13;  $23^{\circ} 52' : 82^{\circ} 57'$ ), jade. F. R. M., **R**, V, 22.
- Kish Kuh, *Persian Gulf* (18 N/10;  $26^{\circ} 39' : 55^{\circ} 32'$ ), Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 126, 129 (fig.).
- Kishanpur, *Narsinghpur* (55 N/1;  $22^{\circ} 48' : 79^{\circ} 9'$ ), grunerite-schist. E. H. P., **R**, LXII, 131.
- Kishanpur, *Ranchi* (73 F/1;  $22^{\circ} 47' : 85^{\circ} 7' 30''$ ), quartzite after tuff. J. A. D., **M**, LIV, 28.
- Kisnan-Sar (Vishan-Sar), *Kashmir* (43 N/3;  $34^{\circ} 24' : 75^{\circ} 6'$ ), lakes. R. L., **R**, XII, 22.
- Kishenganga R., *Kashmir* (43 F/S. E.;  $34^{\circ} 30' : 73^{\circ} 50'$ ), Zangskar and Panjal beds. R. L., **M**, XXII, 153, 225.
- Kishengarh, *Rajputana* (45 J/14;  $26^{\circ} 34' : 74^{\circ} 52'$ ), clæolite- and sodalite-syenites. E. V., **R**, XXXI, 43; A. M. H., **R**, I, VI, 180 (Pls. ii-xii).
- Kishnopur, *Saraikele* (73 J/1;  $22^{\circ} 46' 30'' : 86^{\circ} 8'$ ), kyanite-rock. J. A. D., **M**, LII, 230.

- Kishorganj, *Mymensingh* (78 L/15 ;  $24^{\circ} 26' : 90^{\circ} 46'$ ), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 331 ; Srinangal earthquake, 1918. M. S., **M**, XLVI, 20.
- Kishori, *Alwar* (54 A/7 ;  $27^{\circ} 17' : 76^{\circ} 17'$ ), brecciated slate. A. M. H., **M**, XLV, 69.
- Kishtwar, *Kashmir* (43 O/15 ;  $33^{\circ} 19' : 75^{\circ} 46'$ ), Panjal slates. R. L., **R**, XI, 52 ; **M**, XXII, 236.
- Kisik Kiul, *E. Turkestan* (52 I/10 ;  $35^{\circ} 40' : 78^{\circ} 38'$ ), hot springs, saline. T. O., **M**, XIX, 126.
- Kisnapur, *Dinajpur* (78 C/8 ;  $25^{\circ} 2' 30'' : 88^{\circ} 28'$ ), geodetic station. R. D. O., **M**, XLII, 229.
- Kissengurh, *Bijawar* (54 P/15 ;  $24^{\circ} 28' : 79^{\circ} 45'$ ), overlap of Panna shales by L. Rewali sandstone. F. R. M., **M**, VII, 67.
- Kissering I., *Mergui* (96 I/6 ;  $11^{\circ} 40' : 98^{\circ} 28'$ ), earthquake, December, 1881, time record. R. D. O., **R**, XVII, 50 ; tin-ore. T. H. H., **R**, XXXVIII, 56 ; E. H. P., **R**, LV, 29.
- Kita, *Jaisalmer* (40 N/2 ;  $26^{\circ} 42' : 71^{\circ} 1'$ ), sandstones, ? Jurassic. R. D. O., **R**, XIX, 125.
- Kitauda, *Kolhapur* (47 L/4 ;  $16^{\circ} 3' 30'' : 74^{\circ} 2' 30''$ ), aluminous laterite. H. C. J., **R**, LIV, 426.
- Kitchi, *Kalat* (35 M/5 ;  $27^{\circ} 59' : 67^{\circ} 30'$ ), Manchhar beds, springs. W. T. B., **M**, XVII, 76.
- Kithur, *Ahour* (54 A/10 ;  $27^{\circ} 42' : 76^{\circ} 44'$ ), hornstone breccia. A. M. H., **M**, XLV, 65.
- Kium, *Ladakh* (52 J/15 ;  $34^{\circ} 18' : 78^{\circ} 57'$ ), hot spring. F. S., **R**, VII, 15 ; T. O., **M**, XIX, 126 = Kyam.
- Kiunglung, *Garhwal* (53 N/13 ;  $30^{\circ} 57' : 79^{\circ} 51' 30''$ ), Permian-Lias, section. C. L. G., **M**, XXXIII, 123 ; C. D., **M**, XXXVI, 223.
- Kizil-jilga, *E. Turkestan* (52 I/15 ;  $35^{\circ} 21' : 78^{\circ} 51'$ ), Silurian slates (?). F. S., **R**, VII, 14.
- Kizil-jilgha, *Kashgar* (42 K/14 ;  $37^{\circ} 36' : 74^{\circ} 55'$ ), Triassic beds. H. H. H., **R**, XLV, 307.
- Kizil-jiyik pass, *Russian Turkestan* (42 F/14 ;  $38^{\circ} 42' : 73^{\circ} 48'$ ), Tertiary beds (?). H. H. H., **R**, XLV, 316.
- Knarung, *Ladakh* (52 G/5 ;  $33^{\circ} 53' : 77^{\circ} 22' 30''$ ), hot spring. T. O., **M**, XIX, 126.
- Koad (Khur), *Sirmur* (53 F/10 ;  $30^{\circ} 39' : 77^{\circ} 30'$ ), Krol limestone. H. B. M., **M**, III, pt. 2, 45.
- Koar, *Gujrat* (43 H/9 ;  $32^{\circ} 47' : 73^{\circ} 42'$ ), Siwalik anticline. A. B. W., **R**, VIII, 47.
- Koaria, *Mewar* (45 K/4 ;  $25^{\circ} 7' : 74^{\circ} 1' 30''$ ), dolerite dykes. L. L. F., **R**, LXV, 141.
- Koba, *Cutch* (41 A/10 ;  $23^{\circ} 32' : 68^{\circ} 32'$ ), Gaj series, mollusca. E. V., **M**, I, 422, 434, 454.
- Kobo, *Lakhimpur* (83 M/5 ;  $27^{\circ} 47' : 95^{\circ} 23'$ ), alluvial gold. J. C. B., **R**, XLII, 251.
- Kocha, *Singhbhum* (73 F/5 ;  $22^{\circ} 48' 30'' : 85^{\circ} 26'$ ), ochre. J. A. D., **M**, LIV, 165.

- Kocha Kahar, *Shahpur* (43 D/2; 32° 35' 30" : 72° 6'), lake. T. D. L., **R**, XL, 43 (Pl. vi).
- Kochang, *Ranchi* (73 F/5; 22° 50' : 85° 28'), epidiorite flows. J. A. D., **M**, LIV, 87.
- Kochawahi, *Balaghat* (55 O/13; 21° 48' : 79° 56'), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Kodadongri, *Chhindwara* (55 K/14; 21° 31' : 78° 51' 30"), quartz-pyroxene-gneiss, petrology. L. L. F., **R**, XXXIII, 190.
- Kodaigaon (Kodeganuhan), *Nagpur* (55 K/15; 21° 24' 30". 78° 58'), manganese-ore, analysis. L. L. F., **R**, XXXI, 47 = Kodaigaon.
- Kodaikanal, *Madura* (58 F/8; 10° 14' : 77° 30'), meteoric iron. C. L. G., **A. R.**, 1900, 4; J. C. B., **M**, XLIII, 221; bauxite, analyses. T. H. H., **R**, XXXII, 178; seismograph records : Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 290; Burma earthquake, 1912. J. C. B., **M**, XLII, 85 (Pl. x); Srimangal earthquake, 1918. M. S., **M**, XLVI, 39 (Pl. vi, fig. 1); sympathetic shock 48.
- Kodak, *Kalut* (35 E/14; 27° 45' : 65° 53'), Jurassic anticline. E. V., **R**, XXXVIII, 193.
- Kodal, *Savantvadi* (47 H/12; 16° 1' : 73° 41' 30"), actinolite-schist. R. B. F., **M**, XII, 54.
- Kodalgaon, *N. Kanara* (48 I/11; 15° 22' 30" : 74° 37'), granitoid gneiss. L. L. F., **M**, XXXVII, 649.
- Kodaloi, *Nambalpur* (64 O/13; 21° 48' : 83° 49' 30"), ironstone. V. B., **R**, VIII, 107, 120.
- Kodumur, *Warangul* (65 C/4; 17° 11' 30" : 80° 13'), Cuddapah limestone. R. B. F., **R**, XVII, 22.
- Kodaung chaung, *Shwebo* (84 N/13; 22° 53' : 95° 50'), pyrites. E. H. P., **R**, LXIII, 48.
- Kodegaon *Nagpur* (55 K/15; 21° 24' 30" : 78° 58'), braunite. L. L. F., **M**, XXXVII, 60, 62; psilomelane, 112, 114; spessartite, 177; pyrites, 212; opal, 214; magnetite-gondite, 215; black quartzite, 343; manganese-ore. 845 (figs. & Pls. xxiii, xxiv) = Kodaigaon.
- Koderma, Kodarma, *Hazaribagh* (72 H/11; 24° 28' : 85° 36'), mica. T. H. H., **M**, XXXIV, 41, 45; E. H. P., **R**, LV, 22; columbite. R. D. O., **R**, XXX, 129; leucopyrite. A. L. C., **R**, LXI, 206.
- Kodnikonda (Karni Konda), *Nellore* (57 M/7; 15° 23' : 79° 18'), mica-schist. R. B. F., **M**, XVI, 28.
- Kodondia, *Kharsuran* (73 F/13; 22° 46' 30" : 85° 49' 30"), boring for copper-ore. T. H. H., **R**, XXXV, 34; XXXVII, 29.
- Kodopali, *Sambalpur* (64 O/13; 21° 47' : 83° 55'), boring for coal. G. F. R., **M**, XXXII, 91, 105, 118; analysis of coal, 113.
- Kodur, *Vizagapatam* (65 N/11; 18° 16' 30" : 83° 33'), mica. T. H. H., **M**, XXXIV, 67; mangannagnetite. L. L. F., **M**, XXXVII, 40; pyrolusite, 79, 573, 599; wad, 119, 121; green pyroxene, 137; spandite-rock, 179, 269 (Pl. viii, fig. 3); fluor-apatite, 205; rose-quartz, 212; opal, 214; kodurite, 244-255, 264 (Pl. viii, fig. 1); manganese-ore, 1049, 1059 (fig. & Pls. xlvii-1); spandite-rock, petrology **R**, LIX, 193.

- Kodwel, *Hazaribagh* (73 E/1 ; 23° 52' 30" : 85° 7'), Panchet series, section. A. J., **M**, LII, 133.
- Koelagaratoli, *Ranchi* (73 F/1 ; 22° 48' 30" : 85° 2'), porphyritic granite-gneiss. L. A. N., **R**, LXV, 513 (Pl. xxvi, fig. 1) ; analysis, 502.
- Koelkat, *Rewah* (64 I/5 ; 23° 56' 30" : 82° 30'), crystalline limestone. F. R. M., **R**, VI, 42.
- Koghazi, *Chitral* (38 M/13 ; 35° 56' 30" : 71° 56'), crystalline limestone. H. H. H., **R**, XLV, 282.
- Kohad, *Kangra* (52 D/16 ; 32° 5' : 76° 48'), iron-ore. H. B. M., **M**, III, pt. 2, 178.
- Kohala, *Hazara* (43 F/8 ; 34° 7' : 73° 29' 30'), carbonaceous shale. R. L., **M**, XXII, 88 ; R. R. S., **M**, XLI, 101 ; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 216 ; L. Siwalik outlier. D. N. W., **M**, LI, 273.
- Koharsina, *Jaipur* (45 N/1 ; 26° 53' 30" : 75° 2'), conglomerate, ? Delhi series. C. S. M., **R**, XLV, 123.
- Kohat, *N. W. F. Prov.* (38 O/6 ; 33° 36' : 71° 26'), Cretaceous-Eocene beds. A. B. W., **R**, XII, 104 ; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 227 ; bituminous shale. R. R. S., **M**, XLI, 108 ; water-supply. E. H. P., **R**, LVIII, 34 ; *Conoclypeus*. L. M. D., **R**, LIX, 359 (Pls. xxv, xxvi).
- Kohat pass, *Peshawar* (38 O/6 ; 33° 38' : 71° 29'), Cretaceous (?) limestone. C. L. G., **R**, XXV, 94.
- Kohgirdak, *Afghanistan* (33 N/14 ; 34° 41' : 67° 46'), fault. H. H. H., **M**, XXXIX, 54.
- Koh-i-Baba, *Afghanistan* (33 M/6 ; 35° 40' : 67° 28'), granite. H. H. H., **M**, XXXIX, 4 ; relations with Hindu Kush, 5 ; Kalu series, 23, 50 ; Helmand series, 25 ; Cretaceous limestone, 53.
- Koh-i-Bedaolat, *Afghanistan* (38 J/15 ; 34° 17' : 70° 52'), limestone. H. H. H., **M**, XXXIX, 41.
- Koh-i-Dalil, *Chagai* (30 K/4 ; 29° 8' : 62° 12'), volcano. E. V., **M**, XXXI, 282.
- Koh-i-Daman, *Afghanistan* (38 F/ N. W. ; 34° 55' : 69° 15'), Pleistocene alluvium. H. H. H., **M**, XXXIX, 39.
- Koh-i-Dumak (? Koh-i-Daram), *Makran* (31 K/11 ; 25° 26' : 62° 36'), Makran series, mollusca. E. V., **M**, L, 279, 290, 292.
- Koh-i-Ghandak, *Afghanistan* (33 N/13 ; 34° 56' : 67° 47'), relations with Hindu Kush. H. H. H., **M**, XXXIX, 5 ; Cretaceous and Tertiary beds, 54.
- Koh-i-Hanjirdan, *Persia* (30 G/4 ; 29° 8' : 61° 4'), granite intrusions in Tertiaries. E. V., **M**, XXXI, 268 (Pl. xiii).
- Koh-i-Humai, *Chagai* (30 K/8 ; 29° 6' : 62° 18'), hippuritic limestone. E. V., **M**, XXXI, 251 (Pl. ix, fig. 9).
- Koh-i-Khwaja, *Seistan* (30 F/5 ; 30° 56' : 61° 16'), disturbance in Siwalik beds. E. V., **R**, XXXVIII, 219.
- Kohikundra, *Surguja* (64 J/9 ; 22° 53' : 82° 40'), coal seam. R. R. S., **M**, XLI, 82.
- Kohima, *Naga Hills* (83 K/2 ; 25° 40' : 94° 7'), earthquake, 1897. R. D. O., **M**, XXIX, 27 ; fissures, 119, 342 ; sounds, 194 ; metamorphism in Disang shales. H. H. H., **R**, XL, 287 ; thrust-faulting in Tertiary beds. E. H. P., **M**, XL, 290.

- Koh-i-Malik-Siah, *Chagai* (30 C/13;  $29^{\circ} 51' : 60^{\circ} 53'$ ), quartz- and augite-diorite. T. H. H., **R**, XXX, 127; Ranikot beds. E. V., **M**, XXXI, 196, 198; iron- and copper-ores, 294; Laki series. **R**, XXXIV, 186 (note).
- Koh-i-Sultan, *Chagai* (30 K/16;  $29^{\circ} 7' : 62^{\circ} 48'$ ), volcano. E. V., **M**, XXXI, 274 (Pls. xiv-xvi, xviii & xix); sulphur, alunogen and lithomarge. T. H. H., **R**, XXX, 128.
- Koh-i-Tafdan, *Persia* (30 H/2;  $28^{\circ} 36' : 61^{\circ} 8'$ ), volcano. E. V., **M**, XXXI, 271 (Pl. iv).
- Koh-i-Tan (Lomka Soli), *Turkestan* (32 K/1;  $37^{\circ} 59' : 66^{\circ} 14'$ ), salt mines. C. L. G., **R**, XIX, 258.
- Kohka, *Bhandara* (55 O/16;  $21^{\circ} 12' : 79^{\circ} 47' 30''$ ), thrust-fault. E. H. P., **R**, LXIII, 115.
- Kohlan, *Sirmur* (53 F/5;  $30^{\circ} 49' : 77^{\circ} 17'$ ), Jutogh overthrust. G. E. P., **M**, LIII, 24; penninite zone, Chor Mt., 71.
- Koh-malik-do-khand, *Afghanistan* (30 O/10;  $29^{\circ} 39' : 63^{\circ} 31'$ ), granitite-curite. T. H. H., **R**, XXX, 126; andesite and travertine, 128.
- Koilesar, *Jaipur* (54 A/8;  $27^{\circ} 3' 30'' : 76^{\circ} 23'$ ), hot spring. T. O., **M**, XIX, 133.
- Koilkuntla, *Kurnool* (57 I/8;  $15^{\circ} 14' : 78^{\circ} 19'$ ), limestone, Kundair series. W. K., **M**, VIII, 45; manganese-ore. L. L. F., **M**, XXXVII, 1038.
- Koilra, *Hazaribagh* (73 A/14;  $23^{\circ} 44' : 84^{\circ} 58' 30''$ ), coal seams. A. J., **M**, LII, 62.
- Koireedeel, *Manbham* (73 I/5;  $23^{\circ} 48' 30'' : 86^{\circ} 16' 30''$ ), shelly travertine. T. W. H. H., **M**, V, 279.
- Koithi (Kaithi), *Burdwan* (73 M/2;  $23^{\circ} 43' : 87^{\circ} 4'$ ), coal seam. R. R. S., **M**, XLI, 46.
- Kojak range, *Quetta-Pishin* (34 J/9;  $30^{\circ} 50' : 66^{\circ} 38'$ ), structure. C. L. G., **M**, XVIII, 32 (fig.); copper-ore, 57; occurrence of nummulites. W. K., **R**, XXVII, 3-Khojak range.
- Kokapur, *Idar* (46 E/6;  $23^{\circ} 31' : 73^{\circ} 24'$ ), green amphibole-rock. S. S. M., **M**, XLIV, 104 (Pl. xiii, fig. 3); steatite, 148.
- Kokaran, *Afghanistan* (34 E/10;  $31^{\circ} 37' : 65^{\circ} 36'$ ), trap dykes in hippuritic limestone. C. L. G., **M**, XVIII, 53 (figs. & Pls. vii-ix).
- Kokkon (Pokkon), *Shavebo* (84 N/10;  $22^{\circ} 40' : 95^{\circ} 42'$ ), mud springs. L. L. F., **R**, LXV, 93.
- Kokkyi, *Minbu* (84 L/12;  $20^{\circ} 2' 30'' : 94^{\circ} 40'$ ), basal beds, Irrawadian series. G. C., **R**, XLI, 221.
- Kokner, *Thana* (47 A/14;  $19^{\circ} 43' : 72^{\circ} 50' 30''$ ), hot springs. T. O., **M**, XIX, 108.
- Kokon (Kukon), *Khasi Hills* (78 O/11;  $25^{\circ} 22' 30'' : 91^{\circ} 44'$ ), overlap of Cretaceous beds. H. B. M., **M**, VII, 173.
- Kokser, *Lahul* (52 H/7;  $32^{\circ} 24' : 77^{\circ} 15'$ ), 'central gneiss'. R. L., **R**, XIII, 53.
- Koksu, *Russian Turkestan* (42 E/9;  $39^{\circ} 48' : 73^{\circ} 44'$ ), *Fusulina* limestone. H. H. H., **R**, XLV, 320.
- Kokulam, *Malura* (58 G/13;  $9^{\circ} 57' : 77^{\circ} 58'$ ), granular quartz-rock. R. B. F., **M**, XX, 12; crystalline limestone, 19.
- Kokuron, *Kashmir* (43 N/7;  $34^{\circ} 17' : 75^{\circ} 20' 30''$ ), moraine (?). R. D. O., **R**, XXXI, 148.

- Kolab R., *Jeypore* (65 J/1;  $18^{\circ} 47' : 82^{\circ} 9'$ ), alluvial gold. T. L. W., **A. R.**, 1900, 176.
- Kolachel, *Travancore* (58 H/8;  $8^{\circ} 10' : 77^{\circ} 15'$ ), Warkilli beds. R. B. F., **R.**, XVI, 28.
- Koladi Ghat, *Kalahandi* (65 M/5;  $19^{\circ} 56' 30'' : 83^{\circ} 22'$ ), graphite. T. L. W., **M.**, XXXIII, pt. 3, 15; L. L. F., **R.**, LIII, 270.
- Kolaith, *Bikaner* (45 A/13;  $27^{\circ} 50' : 72^{\circ} 58'$ ), pre-Tertiary sandstones. T. D. L., **R.**, XXX, 124.
- Kolala, *Punch* (43 G/10;  $33^{\circ} 42' : 73^{\circ} 43'$ ), L. Siwalik folding. D. N. W., **M.**, LI, 328.
- Kolambi, *Goa* (48 E/14;  $15^{\circ} 34' : 73^{\circ} 59' 30''$ ), manganese-ore. L. L. F., **M.**, XXXVII, 984, 989.
- Kolapilli, *Kistna* (65 D/14;  $16^{\circ} 43' : 80^{\circ} 55'$ ), Rajmahal plants. O. F., **R.**, IX, 39- Golapali.
- Kolar, *Jeypore* (65 J/6;  $18^{\circ} 42' : 82^{\circ} 24' 30''$ ), potstone. T. L. W., **A. R.**, 1900, 168; hypersthene-granite, 170.
- Kolar, *Mysore* (57 K/4;  $13^{\circ} 8' : 78^{\circ} 8'$ ), goldfield. W. K., **R.**, XV, 199; XXII, 37; F. H. H., **M.**, XXXIII, pt. 1 (Pls. i-xxi).
- Kolasekharapatanam, *Tinnevely* (58 L/3;  $8^{\circ} 24' : 78^{\circ} 3'$ ), marine alluvium. R. B. F., **M.**, XX, 81.
- Kolattur, *Malabar* (58 B/1;  $10^{\circ} 56' 30'' : 76^{\circ} 9'$ ), lateritisation of gneiss. P. L., **M.**, XXIV, 226 (fig.).
- Kolatur, *Pudukkottai* (58 J/14;  $10^{\circ} 33' 30'' : 78^{\circ} 47'$ ), granite-gneiss. R. B. F., **R.**, XII, 144.
- Kolau, *Sirmur* (53 F/9;  $30^{\circ} 47' 30'' : 77^{\circ} 32' 30''$ ), Baileuganj beds. L. L. F., **R.**, LXV, 129.
- Kolda, *Singhbhum* (73 F/1;  $22^{\circ} 46' : 85^{\circ} 11'$ ), amphibolite-schist. J. A. D., **M.**, LIV, 57.
- Koleh, *Hazaribagh* (73 E/2;  $23^{\circ} 42' : 85^{\circ} 8'$ ), Barakar-Raniganj stages, section. A. J., **M.**, LII, 71.
- Koleswar, *Satara* (47 G/9;  $18^{\circ} 0' : 73^{\circ} 40'$ ), aluminous laterite. C. S. F., **M.**, XLIX, 85.
- Kolhapur, *Bombay* (47 L/2;  $16^{\circ} 42' : 74^{\circ} 13'$ ), copper-ore. H. C. J., **R.**, LIV, 427.
- Kolherwan (Kol Herua), *Palamau* (73 A/9;  $23^{\circ} 49' : 84^{\circ} 37' 30''$ ), Ironstone shales. V. B., **M.**, XV, 61.
- Kolia, *Chhindwara* (55 J/12;  $22^{\circ} 12' : 78^{\circ} 32' 30''$ ), colliery, analysis of coal. C. V. H., **R.**, LIX, 181.
- Koliar, *Tanjore* (58 M/15;  $11^{\circ} 17' : 79^{\circ} 50'$ ), sand dunes. W. K., **M.**, IV, 250.
- Koilk, *Belgaum* (48 I/5;  $15^{\circ} 46' : 74^{\circ} 15' 30''$ ), cave in mica-schist. R. B. F., **M.**, XII, 49; Intertrappean gravels, 197.
- Koli-ka-Bagh, *Sirmur* (53 F/10;  $30^{\circ} 45' : 77^{\circ} 31'$ ), Baileuganj beds. L. L. F., **R.**, LXV, 129.
- Kollegal, *Coimbatore* (57 H/4;  $12^{\circ} 9' 30'' : 77^{\circ} 6'$ ), Dharwar band, old workings for gold. R. B. F., **R.**, XXI, 55; H. H. H., **M.**, XXXIII, pt. 2, 53.
- Kollur, *Kashmir* (43 O/5;  $33^{\circ} 54' 30'' : 75^{\circ} 16'$ ), Carboniferous beds. C. S. M., **R.**, XXXVII, 323; XL, 229.

- Kolokaunuttom, *Trichinopoly* (58 I/16;  $11^{\circ} 7' : 78^{\circ} 57'$ ), U. Utatur beds, fossils. H. F. B., **M**, IV, 88; *Trichinopoly* beds, 119.
- Kolonia, *Naini Tal* (62 C/4;  $29^{\circ} 5' : 80^{\circ} 0' 30''$ ), Murree-Siwalik beds. W. T., **R**, XIV, 85=Kalaunia.
- Koloture, *Trichinopoly* (58 I/16;  $11^{\circ} 6' 30'' : 78^{\circ} 59'$ ), basal beds, Ariyalur stage. H. F. B., **M**, IV, 133.
- Kolpotka, *Singhbhum* (73 F/3;  $22^{\circ} 22' 30'' : 85^{\circ} 6'$ ), barytes. E. H. P., **R**, LXII, 31.
- Kolu, *Simla* (53 E/8;  $31^{\circ} 13' : 77^{\circ} 20'$ ), Blaini limestone. C. A. M., **R**, X, 212.
- Koludi, *Rewah* (63 H/15;  $24^{\circ} 30' : 81^{\circ} 57'$ ), Kheinjua beds. P. N. D., **M**, XXXI, 149, 151.
- Koludih, *Saruikela* (73 J/2;  $22^{\circ} 44' : 86^{\circ} 7'$ ), kaolin. E. H. P., **R**, LVI, 30.
- Kolumnullah (Kollamu Vagu), *Kurnool* (56 L/16;  $16^{\circ} 3' : 78^{\circ} 51'$ ), slates, Kistna series. W. K., **M**, VIII, 253.
- Kolur, *Bastar* (65 E/1;  $19^{\circ} 55' : 81^{\circ} 8'$ ), alluvial gold. P. N. B., **A. R.**, 1899, 38.
- Kolur, *Sirmur* (53 F/6;  $30^{\circ} 31' : 77^{\circ} 25'$ ), iron-ore. H. B. M., **M**, III, pt. 2, 179.
- Kolymullay, *Salem* (58 I/7;  $11^{\circ} 20' : 78^{\circ} 22'$ ), physical features. W. K., **M**, IV, 239; iron-ore beds, 284.
- Komai (Kumayi), *Darjeeling* (78 A/16;  $27^{\circ} 1' 30'' : 88^{\circ} 49'$ ), copper-ore. H. H. H., **R**, XXXI, 1.
- Komarsin (Kumharsain), *Simla* (53 E/7;  $31^{\circ} 19' : 77^{\circ} 27'$ ), trap rocks. H. B. M., **M**, III, pt. 2, 71.
- Komdi, *Singhbhum* (73 F/2;  $22^{\circ} 43' : 85^{\circ} 10'$ ), amphibole-garnet-rock. J. A. D., **M**, LIV, 95 (Pl. xv, fig. 2).
- Komera, *Kistna* (65 H/5;  $16^{\circ} 58' : 81^{\circ} 17'$ ), iron smelting. W. K., **M**, XVI, 257.
- Komochoki, *Bilaspur* (64 J/2;  $22^{\circ} 37' 30'' : 82^{\circ} 3'$ ), mica. T. H. H., **M**, XXXIV, 55.
- Kompilai, *Bonai* (73 G/1;  $21^{\circ} 50' : 85^{\circ} 7'$ ), iron-ore. H. C. J., **R**, LIV, 213.
- Kona, *Yeotmal* (55 P/4;  $20^{\circ} 6' 30'' : 79^{\circ} 1'$ ), coarsiforous sandstone, sub-recant. T. W. H. H., **M**, XIII, 92.
- Konada, *N. Kanara* (48 I/11;  $15^{\circ} 17' 30'' : 74^{\circ} 34'$ ), manganese-ore. L. L. F., **M**, XXXVII, 649.
- Konain, *Dekra Dun* (53 F/13;  $30^{\circ} 47' 30'' : 77^{\circ} 53'$ ), fault. R. D. O., **R**, XVI, 193.
- Konarnai R., *Persia* (24 L/15;  $28^{\circ} 27' : 58^{\circ} 58'$ ), lava flows. G. H. T., **R**, LIII, 69.
- Konartakhta, *Persia* (10 O/6;  $29^{\circ} 32' : 51^{\circ} 23' 30''$ ), Fars series. G. E. P., **M**, XXXIV, pt. 4, 34 (Pl. v); Bakhtiyari series, 64.
- Kondaikula, *Bamra* (73 C/16;  $21^{\circ} 12' : 84^{\circ} 48' 30''$ ), Mahadeva beds (?). V. B., **R**, X, 171.
- Kondaji, *Chitaldrug* (48 N/14;  $14^{\circ} 34' : 75^{\circ} 52'$ ), Dharwar conglomerate. R. B. F., **M**, XXV, 80.
- Kondajori, *Jeypore* (65 J/5;  $18^{\circ} 57' : 82^{\circ} 15'$ ), dolomite, Cuddapah. T. L. W., **A. R.**, 1900, 172.
- Kondampeta, *Adilabad* (56 N/13;  $18^{\circ} 59' 30'' : 79^{\circ} 48'$ ), Maleri sandstones. W. K., **R**, XIII, 23.

- Kondamungalum (Kunamangalam), *Trichinopoly* (58 M/8;  $11^{\circ} 0' 30''$  :  $79^{\circ} 15'$ ), escarpment, Cuddalore sandstones. H. F. B., **M**, IV, 138, 168; iron-ore, 216.
- Kondapalem, *Vizagapatam* (65 N/11;  $18^{\circ} 16' 30''$  :  $83^{\circ} 33'$ ), manganese-ore. L. L. F., **M**, XXXVII, 463, 1048.
- Kondaparty, *Warangal* (65 B/8;  $18^{\circ} 14'$  :  $80^{\circ} 15' 30''$ ), Maleri red clays. W. K., **R**, XIII, 21.
- Kondapilli, *Kistna* (65 D/10;  $16^{\circ} 37'$  :  $80^{\circ} 32'$ ), garnetiferous gneiss. W. K., **M**, XVI, 204; XVIII, 202.
- Kondapy, *Nellore* (57 M/15;  $15^{\circ} 25'$  :  $79^{\circ} 51' 30''$ ), granite vein, orthoclase crystals. W. K., **M**, XVI, 43.
- Kondavidu, *Guntur* (65 D/7;  $16^{\circ} 16'$  :  $80^{\circ} 16'$ ), granitoid gneiss. R. B. F., **M**, XVI, 32.
- Kondli, *Tumkur* (57 C/11;  $13^{\circ} 22'$  :  $76^{\circ} 44' 30''$ ), manganese-ore. L. L. F., **M**, XXXVII, 1152.
- Kondra, *Jaipur* (54 B/13;  $26^{\circ} 57'$  :  $76^{\circ} 59'$ ), Aravalli clay-rock. A. M. H., **R**, XLVIII, 184.
- Kondraposi, *Konijhar* (73 C/9;  $21^{\circ} 48' 30''$  :  $85^{\circ} 31' 30''$ ), Dharwar rocks. E. H. P., **R**, LXI, 96.
- Kongad, *Malabar* (58 B/9;  $10^{\circ} 51' 30''$  :  $76^{\circ} 31'$ ), laterite terraces. P. L., **M**, XXIV, 225 (Pl. v, figs. 13, 14).
- Kongan, *Naga Hills* (83 J/13;  $26^{\circ} 45'$  :  $94^{\circ} 50'$ ), overthrust in Coal Measures. H. H. H., **R**, XL, 293 (fig.); coal seams, 309 (Pl. xlix)—Kangan.
- Konganahosur, *Bellary* (57 B/1;  $14^{\circ} 52' 30''$  :  $76^{\circ} 3' 30''$ ), alluvial gold. R. B. F., **M**, XXV, 89, 196; J. M. M., **R**, XXXIV, 119.
- Konganapuram, *Salem* (58 E/14;  $11^{\circ} 34'$  :  $77^{\circ} 54' 30''$ ), iron smelting. T. H. H., **R**, XXV, 148; mica-pegmatite. C. L. G., **R**, XXVIII, 88.
- Konghsa (E.), *N. Shan States* (93 F/6;  $22^{\circ} 37'$  :  $97^{\circ} 26'$ ), brecciated dolomite. T. D. L., **M**, XXXIX, pt. 2, 190—Kongsa.
- Konghsa (W.), *N. Shan States* (93 F/2;  $22^{\circ} 32'$  :  $97^{\circ} 1'$ ), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 142, 341.
- Kongra La, *Sikkim* (77 D/12;  $28^{\circ} 6'$  :  $88^{\circ} 37'$ ), Jurassic beds. H. H. H., **M**, XXXVI, 151.
- Kongsa, *N. Shan States* (93 F/6;  $22^{\circ} 37'$  :  $97^{\circ} 26'$ ), limestone, Nanyau series. P. N. D., **A. R.**, 1900, 115—Konghsa (E.).
- Kongsia, *Singbhum* (73 F/5;  $22^{\circ} 50' 30''$  :  $85^{\circ} 18'$ ), folding in Iron Ore series. J. A. D., **M**, LIV, 79.
- Kongya, *Minbu* (84 L/5;  $20^{\circ} 46'$  :  $94^{\circ} 25'$ ), Tertiary gastropoda. E. V., **R**, LIV, 244.
- Kongyi, *L. Chindwin* (84 J/10;  $22^{\circ} 41'$  :  $94^{\circ} 40' 30''$ ), oil seepage. E. H. P., **R**, LXII, 60.
- Kongyi, *Sagaing* (84 N/16;  $22^{\circ} 8' 30''$  :  $95^{\circ} 51'$ ), salt. E. H. P., **R**, LXII, 61.
- Koniakovil (Kanniyakovil), *Pondicherry* (58 M/13;  $11^{\circ} 48'$  :  $79^{\circ} 46' 30''$ ), lignite. W. K., **R**, XVII, 194; R. R. S., **M**, XLI, 103.
- Konijedu, *Guntur* (57 M/15;  $15^{\circ} 26' 30''$  :  $79^{\circ} 57'$ ), magnetite bed. R. B. F., **M**, XVI, 18.
- Konipet (Kenippattu), *S. Arcot* (57 P/12;  $12^{\circ} 4'$  :  $79^{\circ} 44'$ ), plant bed, Cuddalore sandstones. H. F. B., **M**, IV, 174.



- Konjiri (Kanaijona) hill, *Talcher* (73 G/4;  $21^{\circ} 3' : 85^{\circ} 8'$ ), fault. W. T. B., **M**, I, 68.
- Konkurapal, *Angul* (73 C/16;  $21^{\circ} 6' : 84^{\circ} 56'$ ), carbonaceous shales. W. T. B., **M**, I, 61; boring site. **R**, V, 64.
- Konni, *S. Shan States* (93 D/10;  $20^{\circ} 36' : 96^{\circ} 41'$ ), Purple sandstones. C. S. M., **A. R.**, 1900, 145.
- Koodlya hill, *Mirzapur* (63 L/15;  $24^{\circ} 28' : 82^{\circ} 57'$ ), L. Vindhyan conglomerate. F. R. M., **M**, VII, 31; unconformity, 127.
- Kooldunna, *Rawalpindi* (43 G/5;  $33^{\circ} 56' : 73^{\circ} 24'$ ), nummulitic limestone. A. B. W., **R**, VI, 61—Kuldana.
- Koolharghat, *Khairagarh* (64 C/12;  $21^{\circ} 14' 30'' : 80^{\circ} 43'$ ), altered Chilpi Ghat beds. P. N. B., **R**, XXI, 59.
- Koonar R., *Hazaribagh* (73 E/13;  $23^{\circ} 49' : 85^{\circ} 50'$ ), coal seams, sections T. W. H. H., **M**, VI, 62—Kunar R.
- Koondee, *Hazaribagh* (73 A/13;  $23^{\circ} 51' : 84^{\circ} 57' 30''$ ), Talehir beds, section. A. J., **M**, LII, 12.
- Koon-Pai (Kunpha), *Toungoo* (94 G/1;  $17^{\circ} 52' : 97^{\circ} 3'$ ), hot spring. T. O., **M**, XIX, 151.
- Koora, *Hazaribagh* (73 E/5;  $23^{\circ} 47' : 85^{\circ} 21' 30''$ ), coal seams. A. J., **M**, LII, 75.
- Korban R., *Rajpipla* (46 G/13;  $21^{\circ} 48' : 73^{\circ} 47'$ ), Cretaceous beds, fossils. W. T. B., **M**, VI, 349.
- Korkootla, *Hazaribagh* (73 E/6;  $23^{\circ} 43' : 85^{\circ} 21'$ ), limestone. A. J., **M**, LII, 144.
- Koorloonga, *Hazaribagh* (73 A/13;  $23^{\circ} 52' : 84^{\circ} 56' 30''$ ), Barakar stage. A. J., **M**, LII, 43.
- Koorut, *Jhansi* (54 L/15;  $24^{\circ} 16' : 78^{\circ} 54'$ ), Bijawar-Semri boundary. H. B. M., **M**, II, 29.
- Koosoonda, *Manbhum* (73 I/5;  $23^{\circ} 46' : 86^{\circ} 24'$ ), coal seam, section. T. W. H. H., **M**, V, 255.
- Koostur, *Manbhum* (73 I/5;  $23^{\circ} 45' 30'' : 86^{\circ} 23' 30''$ ), coal seam, section. T. W. H. H., **M**, V, 257.
- Kootur, *Palamau* (73 A/14;  $23^{\circ} 41' : 84^{\circ} 55' 30''$ ), Barakar stage, section. A. J., **M**, LII, 59.
- Kopeh, *Palamau* (73 A/5;  $23^{\circ} 50' : 84^{\circ} 17' 30''$ ), magnetite. V. B., **M**, XV, 115.
- Kopili R., *Cachar* (83 C/10;  $25^{\circ} 31' : 92^{\circ} 37'$ ), gneiss and Cretaceous sandstone. H. B. M., **M**, IV, 429; hot spring. T. O., **M**, XIX, 149; T. D. L., **R**, XVI, 202.
- Kopparu, *Guntur* (65 D/8;  $16^{\circ} 7' : 80^{\circ} 17'$ ), Rajmahal beds. R. B. F., **M**, XVI, 76; laterite, 89.
- Kopra peak, *Punch* (43 K/5;  $33^{\circ} 54' : 74^{\circ} 15'$ ), gneiss. D. N. W., **M**, LI, 224, 299.
- Koprawari, *Chhindwara* (55 K/14;  $21^{\circ} 44' 30'' : 78^{\circ} 47'$ ), Deccan trap, elevation of base. H. H. H., **R**, XLIII, 31.
- Kora (Konra) hill, *Bankura* (73 M/3;  $23^{\circ} 23' : 87^{\circ} 7'$ ), gneissose rock. V. B., **M**, XVIII, 92—Koro hill.
- Koragh (Kuragh), *Chitral* (42 D/4;  $36^{\circ} 13' : 72^{\circ} 10'$ ), Devonian fossils. H. H. H., **R**, XLV, 288.

- Koraikela, *Saraikela* (73 F/10;  $22^{\circ} 42' 30''$  :  $85^{\circ} 32'$ ), potstone. V. B., **M**, XVIII, 148.
- Korangla hill, *Ohhināwara* (55 J/10;  $22^{\circ} 33'$  :  $78^{\circ} 40'$ ), Deccan trap, petrology. C. A. M., **R**, XX, 109.
- Koranji I., *Bassein* (85 L/2;  $16^{\circ} 32'$  :  $94^{\circ} 15'$ ), calcareous sandstone. W. T., **M**, X, 277, 340.
- Koraput, *Jeypore* (65 J/9;  $18^{\circ} 48' 30''$  :  $82^{\circ} 43'$ ), clorolite (nepheline)-syenite. C. S. M., **A. R.**, 1903, 25; petrology. T. L. W., **R**, XXXVI, 19.
- Korar, *Rewah* (64 A/14;  $23^{\circ} 37'$  :  $80^{\circ} 52' 30''$ ), coalfield. T. W. H. H., **M**, XXI, 165; R. R. S., **M**, XLI, 77.
- Korba, *Bilaspur* (64 J/11;  $22^{\circ} 21'$  :  $82^{\circ} 42'$ ), coalfield. W. T. B., **R**, III, 54; W. K., **R**, XIX, 223 (Pl. ix); borings. XX, 198; R. R. S., **M**, XLI, 84.
- Korchee, *Mirzapur* (63 P/8;  $24^{\circ} 4' 30''$  :  $83^{\circ} 16'$ ), magnetite. F. R. M., **R**, V, 22.
- Koreagarh, *Korea* (64 I/8;  $23^{\circ} 8'$  :  $82^{\circ} 28'$ ), coalfield. T. W. H. H., **M**, XXI, 204; R. R. S., **M**, XLI, 84; L. L. F., **M**, XLI, 211.
- Korekera hill, *Ohhindwara* (55 J/11;  $22^{\circ} 25'$  :  $78^{\circ} 41'$ ), escarpment, Deccan trap. J. C. M., **M**, II, 221.
- Korenga, *Jeypore* (65 I/7;  $19^{\circ} 18'$  :  $82^{\circ} 21'$ ), Vindhyan quartzites. V. B., **R**, X, 180.
- Korgulce, *Hazaribagh* (73 E/13;  $23^{\circ} 46'$  :  $85^{\circ} 59'$ ), coal seams. T. W. H. H., **M**, VI, 57.
- Korhadi, *Nagpur* (55 O/4;  $21^{\circ} 15'$  :  $79^{\circ} 6' 30''$ ), crystalline limestone. W. T. B., **M**, IX, 302.
- Kori Creek, *Cutch* (41 A/9;  $23^{\circ} 48'$  :  $68^{\circ} 37'$ ), old mouth of Indus. R. D. O., **M**, XLVI, 82.
- Korlagundi, *Bellary* (57 A/15;  $15^{\circ} 16' 30''$  :  $76^{\circ} 58'$ ), Dharwar schists. R. B. F., **R**, XIX, 102.
- Korlapat, *Kalahandi* (65 M/2;  $19^{\circ} 33'$  :  $83^{\circ} 11'$ ), spring beneath laterite capping. T. L. W., **M**, XXXIII, pt. 3, 13; bauxite. C. S. F., **M**, XLIX, 184; M. S. K., **R**, LIX, 419 (fig.); analysis. T. H. H., **R**, XXXII, 180; L. L. F., **R**, LIII, 251.
- Korna, *Jodhpur* (45 B/12;  $26^{\circ} 12' 30''$  :  $72^{\circ} 36'$ ), Malani rhyolites. T. D. L., **M**, XXXV, 47.
- Kornda, *Surguja* (73 A/3;  $23^{\circ} 20'$  :  $84^{\circ} 3'$ ), bauxite. C. S. F., **M**, XLIX, 156.
- Koro hill, *Bankura* (73 M/3;  $23^{\circ} 23'$  :  $87^{\circ} 7'$ ), quartzite. W. T. B., **M**, I, 256 = Kora hill.
- Korokpur, *Bastar* (65 J/1;  $18^{\circ} 55'$  :  $82^{\circ} 14' 30''$ ), Vindhyan limestone. V. B., **R**, X, 180; Cuddapah slates and shales. T. L. W., **A. R.**, 1900, 172.
- Korqui, *Goa* (48 I/2;  $15^{\circ} 31' 30''$  :  $74^{\circ} 10'$ ), manganese-ore. L. L. F., **M**, XXXVII, 989.
- Korukondah, *Godavari* (65 G/16;  $17^{\circ} 10'$  :  $81^{\circ} 49'$ ), U. Gondwana sandstone. T. H. H., **R**, XXXII, 157.
- Korumbe, *Chanda* (56 M/10;  $19^{\circ} 41'$  :  $79^{\circ} 44' 30''$ ), pyroxenite, charnockite series. K. H., **R**, LV, 256.
- Koruwa, *Dehra Dun* (53 F/14;  $30^{\circ} 40'$  :  $77^{\circ} 51'$ ), Krol limestone. G. E. P., **M**, LIII, 50.

- Korzok, *Rupshu* (52 L/5 ; 32° 58' : 78° 16'), Carboniferous limestone. H. H. H., **M**, XXXVI, 94.
- Kosai, *Rewah* (63 L/10 ; 24° 34' : 82° 43'), Bijawar limestone. E. V., **M**, XXXI, 69.
- Koseree, *Kungra* (53 A/7 ; 31° 25' 30" : 76° 27'), fault. H. B. M., **M**, III, pt. 2, 142.
- Kosgi, *Bellary* (57 E/1 ; 15° 51' : 77° 14' 30"), 'giant earthquake' scree. R. B. F., **M**, XXV, 70.
- Kosi R., *Naini Tal* (53 O/S. W. ; 29° 30' : 79° 8'), fault. C. S. M., **M**, XXIV, 102.
- Kosmeri, *Betul* (55 F/15 ; 22° 15' 30" : 77° 56'), Barakar sandstone. H. B. M., **R**, VIII, 81.
- Kosumbah, *Balaghat* (55 O/10 ; 21° 38' : 79° 39'), manganese-pyroxenes. L. L. F., **M**, XXXVII, 136, 324 ; manganchlorite, 195 ; manganese-ore, 736.
- Kot, *Jaipur* (45 M/6 ; 27° 40' : 75° 26'), syncline, Ajabgarh series. A. M. H., **R**, LIV, 376.
- Kot (peak), *Simla* (53 E/11 ; 31° 15' 30" : 77° 35'), gneissose granite. C. A. M., **R**, X, 217 ; petrology. XVII, 59.
- Kot Baruch, *Larkhana* (35 N/11 ; 26° 20' 30" : 67° 35'), Gaj series, mollusca. E. V., **M**, I, 422, 429, 431.
- Kot Deji, *Khairpur* (40 A/11 ; 27° 21' : 68° 43'), *Assilina*. W. L. F. N., **R**, LIX, 142, 145 ; *Discocyclina*, 150.
- Kot Fateh Khan, *Attock* (43 C/11 ; 33° 28' : 72° 30' 30"), water-supply. F. H. P., **R**, LX, 72 ; isocline in L. Murree beds, 107.
- Kot Huthial, *Rawalpindi* (43 G/2 ; 33° 45' : 73° 10' 30"), Murree inlier. D. N. W., **M**, LI, 351.
- Kot Jubo, *Khairpur* (40 F/7 ; 26° 22' : 69° 30'), soda industry. G. C., **M**, XLVII, 231.
- Kota, *Betul* (55 F/12 ; 22° 13' : 77° 43'), Talchir beds. H. B. M., **R**, VIII, 76.
- Kota, *Chanda* (56 N/13 ; 18° 55' : 79° 58' 30"), fish bed. T. O., **M**, III, 202 (note) ; W. K., **R**, X, 62 ; **M**, XVIII, 276 ; T. W. H. H., **R**, XI, 25 ; **M**, XIII, 86 ; limestone. W. K., **R**, XIII, 16 ; **M**, XVIII, 284 ; boring for coal. T. W. H. H., **R**, XI, 22 ; W. K., **M**, XVIII, 285 ; R. R. S., **M**, XLII, 99.
- Kota, *Cutch* (41 E/15 ; 23° 24' : 69° 47'), trap flows. A. B. W., **M**, IX, 155.
- Kota, *Mirzapur* (63 P/3 ; 24° 27' 30" : 83° 7'), L. Vindhyan conglomerate. R. D. O., **M**, XXXI, 165.
- Kota, *Rewah* (64 E/15 ; 23° 21' 30" : 81° 51'), coal seams. T. W. H. H., **M**, XXI, 242.
- Kota, *Saugor* (54 P/12 ; 24° 0' 30" : 79° 44' 30"), dam-site. T. H. H., **R**, XXXVIII, 39.
- Kotagarh, *Khariar* (64 L/11 ; 20° 15' 30" : 82° 32'), hot spring. V. B., **R**, X, 176=Kotgaon.
- Kotah, *Rajputana* (45 O/16 ; 25° 11' : 75° 50'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 66 ; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 243.
- Kotahal, *Bellary* (48 N/9 ; 14° 56' : 75° 44'), Dharwar limestone and hematite-quartzite. R. B. F., **M**, XXV, 82.

- Kotaiparai (Kutiparai), *Ramnad* (58 K/3 ;  $9^{\circ} 29' : 78^{\circ} 0' 30''$ ), hornblendic granite-gneiss. R. B. F., **M**, XX, 21, 100.
- Kotakarra, *Vizagapatnam* (65 N/7 ;  $18^{\circ} 22' : 83^{\circ} 29'$ ), manganese-garnet. L. L. F., **M**, XXXVII, 160, 180 ; opal, 214 ; kodurite, 246, 250, 257-61 ; manganese-ore, 508, 526, 1096.
- Kotal Kund, *Jhelum* (43 H/5 ;  $32^{\circ} 46' : 73^{\circ} 18'$ ), Siwalik mammalia. G. E. P., **R**, XLIII, 275.
- Kotal-i-Anjuman &c., see Anjuman &c. Kotal.
- Kotalwar, *Rewah* (64 A/14 ;  $23^{\circ} 36' : 80^{\circ} 55'$ ), coal seam. T. W. H. H., **M**, XXI, 167 ; R. R. S., **M**, XLI, 77.
- Kotam, *Palamau* (73 A/6 ;  $23^{\circ} 36' : 84^{\circ} 17'$ ), iron-ore. V. B., **M**, XV, 117.
- Kotamati, *Ranchi* (73 F/9 ;  $22^{\circ} 56' : 85^{\circ} 37'$ ), syncline in Iron Ore series. J. A. D., **M**, LIV, 49.
- Kotan, *E. Turkestan* (51 O/16 ;  $37^{\circ} 7' : 79^{\circ} 56'$ ), jade mines. F. S., **R**, VII, 53.
- Kotapalle, *Tinnevely* (58 H/12 ;  $8^{\circ} 9' : 77^{\circ} 36'$ ), sand dunes. R. B. F., **M**, XX, 88.
- Kotapet, *Karimnagar* (56 N/15 ;  $18^{\circ} 22' : 79^{\circ} 47'$ ), Venkatpur clays. W. K., **M**, XVIII, 232.
- Kotappa Konda, *Guntur* (65 D/4 ;  $16^{\circ} 9' : 80^{\circ} 2'$ ), 'kankar'. R. B. F., **M**, XVI, 99.
- Kotar, *Rewah* (63 D/14 ;  $24^{\circ} 41' 30'' : 80^{\circ} 59'$ ), L. Bhandar beds. F. R. M., **M**, VII, 88.
- Kotar, *Travancore* (58 H/8 ;  $8^{\circ} 10' : 77^{\circ} 26'$ ), Warkalli beds. R. B. F., **R**, XVI, 28.
- Kotdwara, *Garhwal* (53 K/9 ;  $29^{\circ} 45' 30'' : 78^{\circ} 32'$ ), coal seams. T. H. H., **R**, XXXV, 33.
- Koteesar, *Jubbulpore* (64 A/13 ;  $23^{\circ} 59' : 80^{\circ} 49'$ ), L. Vindhyan limestone. F. R. M., **M**, VII, 35 ; quartzite inlier, 45.
- Kotehri, *Kohat* (38 O/11 ;  $33^{\circ} 25' 30'' : 71^{\circ} 35' 30''$ ), bituminous beds. E. H. P., **M**, XI, 413 ; gypseous series, fossils. L. L. F., **R**, LXV, 114—Koteyne.
- Kotemaradi, *Chitaldrug* (57 B/7 ;  $14^{\circ} 18' : 76^{\circ} 24' 30''$ ), goldfield. R. B. F., **R**, XXI, 52.
- Kotepul, *Jeypore* (65 I/8 ;  $19^{\circ} 9' : 82^{\circ} 20'$ ), laterite. V. B., **R**, X, 170 ; Vindhyan limestone and shales, 180=Kotpad.
- Kotera, *Cutch* (41 A/15 ;  $23^{\circ} 29' : 68^{\circ} 55'$ ), earthquake, 1819. R. D. O., **M**, XLVI, 108.
- Kotergherry, *Nilgiri* (58 A/15 ;  $11^{\circ} 26' : 76^{\circ} 51'$ ), gneiss. H. F. B., **M**, I, 220.
- Koteyne, Koteyri, *Kohat* (38 O/11 ;  $33^{\circ} 25' 30'' : 71^{\circ} 35' 30''$ ), inversion of nummulitic limestone. A. B. W., **M**, XI, 124 (fig.) ; **R**, XII, 103—Kotehri.
- Kotgaon, *Khariar* (64 I/11 ;  $20^{\circ} 15' 30'' : 82^{\circ} 32'$ ), hot springs. T. O., **M**, XIX, 143=Kotagarh.
- Kotgar, *Ganjam* (65 M/9 ;  $19^{\circ} 50' : 83^{\circ} 43' 30''$ ), sillimanite-schists. F. H. S., **A. R.**, 1900, 157.
- Kotgarh, Kotguri, *Simla* (53 E/7 ;  $31^{\circ} 19' : 77^{\circ} 29'$ ), anticline in gneiss. F. S., **M**, V, 10 ; Infra-Krol carbonaceous beds. C. A. M., **R**, X, 214 ; XIX, 66 ; earthquake, 1897, sounds. R. D. O., **M**, XXIX, 193.
- Kothara, *Cutch* (41 A/16 ;  $23^{\circ} 8' : 68^{\circ} 56'$ ), earthquake, 1819. R. D. O., **M**, XLVI, 108.

- Kothi Pat, *Balughat* (64 C/5; 21° 54' : 80° 24'), bauxite. H. H. H., **R**, XLVII, 38.
- Kothideo, *Chhindwara* (55 J/12; 22° 12' : 78° 31'), collicry, analysis of coal. G. V. H., **R**, LIX, 182.
- Kothulna, *Nagpur* (55 O/3; 21° 25' : 79° 2'), Archæan quartzites. L. L. F., **R**, LIV, 46 = Kuthulna.
- Koti, *Rewah* (64 E/15; 23° 23' 30" : 81° 51' 30"), coal seam. T. W. H. H., **M**, XXI, 242.
- Koti, *Simla* (53 E/4; 31° 2' : 77° 14' 30"), Blaini limestone. G. E. P., **M**, LIII, 85.
- Koti, *Tehri* (53 J/11; 30° 21' 30" : 78° 39'), junction of slates and quartzite. C. S. M., **R**, XX, 32.
- Kotia, *Singbhum* (73 F/6; 22° 43' : 85° 16'), metamorphosed tuff. J. A. D., **M**, LIV, 66; agglomerates, 87.
- Kotkai, *Bauer* (43 B/14; 34° 35' 30" : 72° 48'), schist, petrology. C. S. M., **M**, XXVI, 60.
- Kotkai, *Waziristan* (38 L/3; 32° 25' : 70° 2'), river terraces. M. S., **R**, LIV, 93.
- Kotkhai, *Simla* (53 E/12; 31° 7' : 77° 32'), mica-schists. C. A. M., **R**, X, 216.
- Kotki, *Mianwali* (38 P/5; 33° 0' : 71° 24'), Jurassic coal seam. R. R. S., **R**, XXXI, 20; alum shales. N. D. D., **R**, XL, 268, 270; alum works, 279.
- Kotleh, *Kangra* (52 D/4; 32° 14' : 76° 2'), Gumber fault. H. B. M., **M**, III, pt. 2, 146.
- Kotli, *Jammu* (43 G/14; 33° 31' : 73° 54'), Himalayan boundary fault. C. S. M., **R**, L, 122 (Pl. xxviii); D. N. W., **M**, LI, 192, 271.
- Kotli, *Kashmir* (43 F/7; 34° 18' : 73° 28'), pre-Ranikot limestone. D. N. W., **R**, LXV, 213.
- Kotli, *Rawalpindi* (43 G/9; 33° 48' : 73° 32'), anticline in Murree beds. D. N. W., **M**, LI, 322.
- Kotluh, *Hazara* (43 F/4; 34° 2' 30" : 73° 13'), Slate series-Eocene, section. C. S. M., **M**, XXVI, 149 (fig.).
- Kotmi, *Betul* (55 F/16; 22° 13' : 77° 56'), Karharbari plants. O. F., **R**, XII, 79.
- Kotmi, *Korea* (64 I/8; 23° 10' : 82° 26'), coal seams. T. W. H. H., **M**, XXI, 242; L. L. F., **M**, XLI, 209.
- Kotpad, *Jeyapore* (65 I/8; 19° 9' : 82° 20'), Cuddapah beds. T. L. W., **A. R.**, 1900, 172 = Kotepad.
- Kotra, *Tonk* (55 E/5; 23° 58' : 77° 20' 30"), bauxitic laterite. T. H. H., **R**, XXXV, 57.
- Kotree (Kotadi), *Cutch* (41 E/4; 23° 3' : 69° 11'), sub-recent calcareous grit. A. B. W., **M**, IX, 281; Gaj series, mollusca. E. V., **M**, L, 314, 435, 447.
- Kotree, *Karachi* (40 C/7; 25° 22' : 68° 19'), Alveolina limestone. W. T. B., **M**, VI, 2.
- Kotri, *Bundi* (54 C/2; 25° 42' : 76° 10' 30"), limestone, U. Rewah stago. A. L. C., **R**, LX, 172.
- Kotri rau, *Saharunpur* (53 F/16; 30° 14' : 77° 46'), water-level in well. H. B. M., **R**, XIV, 228.

- Kotsu (Kotus), *Kashmir* (43 O/1;  $33^{\circ} 51' : 75^{\circ} 14' 30''$ ), Syringothyris limestone. C. S. M., **R**, XL, 219 (Pl. xxxiv).
- Kottakal, *Malabar* (58 A/4;  $11^{\circ} 0' : 76^{\circ} 1'$ ), laterite terraces. P. L., **M**, XXIV, 224 (Pls. iv, v).
- Kottapalle, *Cuddapah* (57 J/7;  $14^{\circ} 22' : 78^{\circ} 22'$ ), barytes. L. L. F., **R**, LXV, 34.
- Kounsoe, *Hazaribagh* (73 E/5;  $23^{\circ} 47' 30'' : 85^{\circ} 22'$ ), coal seams. A. J., **M**, LII, 76.
- Kovilam, *Travancore* (58 H/8;  $8^{\circ} 10' : 77^{\circ} 17'$ ), monazite sands. G. H. T., **R**, XLIV, 187.
- Kovilpatti, *Ramnad* (58 K/2;  $9^{\circ} 35' : 78^{\circ} 4'$ ), serpentinous rock. R. B. F., **M**, XX, 20.
- Kovilpatti, *Tinnerelly* (58 G/16;  $9^{\circ} 10' : 77^{\circ} 52'$ ), granular quartz rock. R. B. F., **M**, XX, 24.
- Kovilar, *Tanjore* (58 N/6;  $10^{\circ} 35' 30'' : 79^{\circ} 15'$ ), lateritic sands. R. B. F., **R**, XII, 155.
- Kovur (N.), *Nellore* (57 M/15;  $15^{\circ} 16' : 79^{\circ} 53'$ ), Rajmahal plant beds. R. B. F., **M**, XVI, 55; travertine, 100.
- Kovur (S.), *Nellore* (57 N/14;  $14^{\circ} 30' : 79^{\circ} 59'$ ), Cuddalore sandstone, well-section. W. K., **M**, XVI, 178.
- Kowa (Gandwani), *Hazaribagh* (73 E/6;  $23^{\circ} 43' : 85^{\circ} 25'$ ), hot spring. T. O., **M**, XIX, 138.
- Kowtha (Kawat), *Nagpur* (55 K/15;  $21^{\circ} 28' 30'' : 78^{\circ} 54' 30''$ ), outlier of Deccan trap. P. N. D., **R**, XXXIII, 222.
- Koyecotand, *Hazaribagh* (73 E/9;  $23^{\circ} 48' : 85^{\circ} 45'$ ), Barakar stage, section. T. W. H. H., **M**, VI, 69.
- Koyegoodum, *Kistna* (65 G/8;  $17^{\circ} 6' : 81^{\circ} 15' 30''$ ), tourmaline, supposed coal. W. K., **R**, VII, 160.
- Koylaree, *Khairagarh* (64 G/1;  $21^{\circ} 47' : 81^{\circ} 4'$ ), felsite, Chilpi Ghat series. P. N. B., **R**, XXI, 56.
- Kozhang R., *Bashahr* (53 I/2;  $31^{\circ} 39' : 78^{\circ} 11'$ ), kyanite-schist. H. H. H., **M**, XXXVI, 11.
- Krakhut (Kirakat), *Bcnares* (63 K/14;  $25^{\circ} 38' : 82^{\circ} 55'$ ), meteorite. J. C. B., **M**, XLIII, 168.
- Kralpur, *Kashmir* (43 J/11;  $34^{\circ} 28' : 74^{\circ} 39'$ ), Panjal traps. R. L., **R**, XII, 23.
- Krela (Karela), *Jammu* (43 K/3;  $33^{\circ} 26' 30'' : 74^{\circ} 7'$ ), Subathu beds, section. C. M. P. Wright, **R**, XXXIV, 38.
- Krinkwiman (Kreinkroimaw), *Akyab* (84 H/4;  $20^{\circ} 12' : 93^{\circ} 0' 30''$ ), oil seepages. F. R. M., **R**, XI, 220; E. H. P., **M**, XL, 199.
- Krishnagar, *Nadia* (79 A/7;  $23^{\circ} 24' : 88^{\circ} 30'$ ), earthquake, 1897. H. H. H., **M**, XXIX, 279; Srimangal earthquake, 1918. M. S., **M**, XLVI, 28.
- Krishnagiri, *Salem* (57 L/2;  $12^{\circ} 32' : 78^{\circ} 13'$ ), augite-norite, petrology. T. H. H., **R**, XXX, 27; granite (Gingee gneiss). E. H. P., **R**, LIX, 92; LXIII, 125.
- Krishnavaram (Kistavaram), *Warangal* (65 C/16;  $17^{\circ} 12' : 80^{\circ} 47'$ ), calcareous schist. W. T. B., **R**, V, 25.
- Kristanagore, *Hooghly* (79 B/2;  $22^{\circ} 44' : 88^{\circ} 5' 30''$ ), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 221.

- Krol Mt., *Simla* (53 F/1 ; 30° 56' 30" : 77° 6'), Himalayan series, section. H. B. M., **M**, III, pt. 2, 23 (fig.).
- Krur, *Kashmir* (43 O/11 ; 33° 27' 30" : 75° 44'), junction of Panjal slates with gneiss. R. L., **R**, XI, 52.
- Kua, *Rewah* (63 H/4 ; 24° 2' : 81° 7'), L. Vindhyan trappoid rock. E. V., **M**, XXXI, 94.
- Kuan, *Jubbulpore* (64 A/2 ; 23° 36' 30" : 80° 7'), pyrolusite. L. L. F., **M**, XXXVII, 819.
- Kuan-chiao, *Yunnan* (92 O/6 ; 25° 32' : 99° 29'), Red beds, Permian. J. C. B., **R**, XLVII, 243.
- Kuang-shan, *Yunnan* (102 B/13 ; 22° 50' : 100° 52'), Triassic fossils. J. C. B., **R**, LIV, 317.
- Kuan-ping, *Yunnan* (92 O/5 ; 25° 51' : 99° 28' 30"), Permo-Triassic beds. J. C. B., **R**, XLVII, 229, 245.
- Kuar (Katol), *Bashahr* (53 I/4 ; 31° 13' : 78° 6'), mica-schists and limestone. C. A. M., **R**, X, 219.
- Kuargarh, *Dholpur* (54 F/10 ; 26° 32' : 77° 38'), malachite. H. H. H., **R**, XLIV, 20.
- Kuarpara (Kunwarpara), *Bundi* (54 C/2 ; 25° 41' 30" : 76° 14' 30"), U. Bhandar shales. A. L. C., **R**, LX, 183.
- Kuba Jagu Jumali, *Larkhana* (35 N/15 ; 26° 26' : 67° 50'), Gaj series, mollusca. E. V., **M**, L, 417, 424, 448, 457.
- Kubasa, *Ranchi* (73 F/13 ; 22° 57' : 85° 48' 30"), agglomerates, J. A. D., **M**, LIV, 74 ; ochre, 165.
- Kubba Shadi Shahid, *Sukkur* (40 A/15 ; 27° 28' : 68° 50'), *Assilina*. W. L. F. N., **R**, LIX, 145.
- Kubbar I., *Persian Gulf* (10 C/8 ; 29° 4' : 48° 28'), littoral concrete. G. E. P., **M**, XXXIV, pt. 4, 143.
- Kubo valley, *U. Chindwin* (83 L/S. W. ; 24° 15' : 94° 25'), coal reported. R.R.S., **M**, XLI, 72.
- Kubra, *Hazaribagh* (73 A/13 ; 23° 56' : 84° 59' 30"), pre-Talchir erosion. A. J., **M**, LII, 10 (fig.) ; Karharbari stage, 20.
- Kubra hill, *Rewah* (63 L/3 ; 24° 21' : 82° 5'), L. Vindhyan conglomerate. F. R. M., **M**, VII, 32.
- Kuch, *Mianwali* (38 O/12 ; 33° 1' : 71° 31' 30"), Jurassic coal seams. R. R. S., **R**, XXXI, 19 ; **M**, XLI, 111.
- Kuch Bihar, *Bengal* (78 F/7 ; 26° 19' : 89° 28'), earthquake, 1897. R. D. O., **M**, XXIX, 25, 287 ; aftershocks, 126, 127 ; XXX, 7=Cooch Behar.
- Kuchai, *Kharsawan* (73 F/9 ; 22° 50' 30" : 85° 44'), kaolinised schist. J. A. D., **M**, LIV, 55.
- Kuchee, *Chhindwara* (55 K/14 ; 21° 43' 30" : 78° 47'), braunite, assay. G. S. L., **R**, XXVII, 111=Kachi Dhana.
- Kuchida, *Jaipur* (54 B/12 ; 26° 5' : 76° 30'), rift valley. A. M. H., **M**, XLV, 176.
- Kuchlak, *Quetta-Pishin* (34 J/15 ; 30° 21' 30" : 66° 57'), boring for water. R. D. O., **R**, XXV, 51.
- Kuchri, *Jaisalmer* (40 I/12 ; 27° 4' : 70° 33'), ammonite bed. W. T. B., **R**, X, 16, 20 ; R. D. O., **R**, XIX, 159.

- Kuchupudi, *Nellore* (57 M/11; 15° 28' : 79° 40'), stone cart-wheel industry R. B. F., **M**, XVI, 105.
- Kuda, *Kathiawar* (41 M/8; 23° 8' : 71° 23'), brine pits, section. F. F., **M**, XXI, 129; E. H. P., **R**, LVI, 33.
- Kudada, *Singhbhum* (73 J/2; 22° 42' 30" : 86° 12'), magnetite. L. L. F., **R**, LIII, 275; apatite. E. H. P., **R**, LXIII, 28.
- Kudadadi, *Ranchi* (73 F/9; 22° 57' 30" : 85° 36' 30"), biotite-schist. J. A. D., **M**, LIV, 68.
- Kudal, *Bellary* (57 A/12; 15° 7' 30" : 76° 41'), quartz reef. R. B. F., **M**, XXV, 158.
- Kudatani, *Bellary* (57 A/16; 15° 11' 30" : 76° 45' 30"), olivine-norite dyke. R. B. F., **M**, XXV, 162; petrology. T. H. H., **R**, XXX, 23.
- Kudbi, *Jeyapore* (65 J/5; 18° 49' : 82° 29'), diopside-rock. T. L. W., **A. R.**, 1900, 171.
- Kudda, *Ranchi* (73 F/13; 22° 56' 30" : 85° 50'), carbonaceous phyllite. J. A. D., **M**, LIV, 46.
- Kuddadih, *Ranchi* (73 F/13; 22° 53' 30" : 85° 47' 30"), epidiorite flow. J. A. D., **M**, LIV, 89; potstone, 166.
- Kudlerbuga, *Sambalpur* (64 O/14; 21° 42' : 83° 59' 30"), hematite lodes. V. B., **R**, X, 182 = Kutarbaga.
- Kudersai, *Mayurbhanj* (73 J/3; 22° 26' 30" : 86° 13'), alluvial gold. P. N. B., **R**, XXXI, 170.
- Kudha-Mingi, *Jaipur* (54 A/4; 27° 9' : 76° 10'), position of Alwar quartzites. A. M. H., **M**, XLV, 107.
- Kudia R., *Manbhum* (73 I/14; 23° 43' : 86° 46'), Barakar stage, section. W. T. B., **M**, III, 69.
- Kudin, *Quetta-Pishin* (34 N/10; 30° 37' : 67° 32'), Triassic fossils. C. D., **R**, XXXIV, 15, 18; *Bregynia multituberculata*. E. V., **R**, XXXIV, 272 (Pl. xxxviii); Nari series, mollusca. **M**, L, 144, 293, 306 &c.
- Kuditnapalli, *N. Arcot* (57 L/5; 12° 49' : 78° 16'), auriferous reef. E. H. P., **R**, LIX, 44; kaolin, 45.
- Kudligi, *Bellary* (57 B/5; 14° 54' : 76° 23'), granitoid gneiss. R. B. F., **M**, XXV, 36, 41.
- Kudri, *Rewah* (63 H/4; 24° 8' : 81° 0'), Kheinjua limestone. P. N. D., **M**, XXXI, 151.
- Kudsuri, *Balaghat* (64 C/1; 21° 53' : 80° 1' 30"), spessartite crystals. L. L. F., **M**, XXXVII, 172, 174.
- Kudum (Kuddam), *Chhindwara* (55 K/14; 21° 41' : 78° 49'), Lameta fossils. P. N. D., **R**, XXXIII, 226.
- Kudung Kulam, *Tinnevely* (58 H/12; 8° 11' : 77° 42' 30"), sub-recent limestone. R. B. F., **M**, XX, 56, 103.
- Kudwal, *Chota Udaipur* (46 F/15; 22° 29' 30" : 73° 46'), actinolite in Champaner limestone. W. T. B., **M**, VI, 203 = Kadwal.
- Kufar (N.), *Sirmur* (53 F/5; 30° 53' : 77° 23'), unconformity, Chail-Blaini series. G. E. P., **M**, LIII, 23.
- Kufar (S.), *Sirmur* (53 F/6; 30° 43' 30" : 77° 22'), Jaunsar conglomerate. G. E. P., **M**, LIII, 29, 73.



- Kufri (E.), *Simla* (53 E/8 ; 31° 6' : 77° 16'), banded slates, Simla series. G. E. P., **M**, LIII, 113 ; quartzite, Jaunsar series, 118.
- Kufri (W), *Simla* (53 E/4 ; 31° 11' 30" : 77° 2'), Chail overthrust, section. G. E. P., **M**, LIII, 98.
- Kuftu, *Sirmur* (53 F/5 ; 30° 45' : 77° 21'), carbonaceous limestone, Jutogh series. G. E. P., **M**, LIII, 25.
- Kuh Dashtak, *Persia* (10 O/10 ; 29° 41' : 51° 43'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 71.
- Kuh Namak, *Persian Gulf* (18 M/16 ; 27° 6' : 55° 57'), salt beds, Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 105.
- Kuh Salah, *Persia* (10 O/10 ; 29° 34' : 51° 36'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 68.
- Kuhat, *Sirmur* (53 F/1 ; 30° 51' 30" : 77° 11'), Blaini boulder bed. G. E. P., **M**, LIII, 11.
- Kuhbanan, *Persia* (24 A/7 ; 31° 23' : 56° 30'), volcanic rocks, Eocene. G. E. P., **M**, XLVIII, pt. 2, 72.
- Kubian, *Rawalpindi* (43 G/7 ; 33° 16' : 73° 29'), M. Siwalik anticline. D. N. W., **M**, LI, 360.
- Kuh-i-Azabag, *Persia* (31 B/2 ; 26° 38' : 60° 1'), crystalline limestone. G. H. T., **R**, LIII, 55.
- Kuhishtak, *Persian Gulf* (25 F/1 ; 26° 47' : 57° 2'), Oman series. G. E. P., **M**, XLVIII, pt. 2, 8.
- Kuinra, *Surguja* (64 M/3 ; 23° 27' : 83° 6'), Talchir beds. V. B., **R**, VI, 27.
- Kuip, *Jodhpur* (45 C/6 ; 25° 42' 30" : 72° 24'), rhyolite flows. T. D. L., **M**, XXXV, 59 (Pl. iii, fig. 1).
- Kuira, *Singhbhum* (73 F/10 ; 22° 32' 30" : 85° 31'), shales, Iron Ore series. J. A. D., **M**, LIV, 32 ; tuffs, 62 ; Ongabira trap, 137, 139.
- Kujerna *Gangpur* (73 B/4 ; 22° 0' 30" : 84° 6'), limestone, ? Vindhyan. V. B., **R**, X, 182=Kinjirma.
- Kujigit pass, *Russian Turkestan* (42 G/15 ; 37° 27' : 73° 58'), Sarikol Shales. H. H. H., **R**, XLV, 312.
- Kujmul, *Puri* (73 H/15 ; 20° 20' 30" : 85° 45' 30"), boring site for coal. V. B., **R**, X, 68.
- Kujrahut, *Mirzapur* (63 P/3 ; 24° 28' : 83° 4'),<sup>2</sup> L. Vindhyan unconformity. F. R. M., **M**, VII, 127.
- Kukhrakuri, *Bankura* (73 I/14 ; 23° 37' : 86° 58' 30"), fish scales, Panchet series. E. R. G., **R**, LXIII, 206.
- Kukinda, *Jhabua* (46 I/8 ; 23° 2' : 74° 27'), volcanic breccia in Deccan trap. T. H. H., **R**, XXXVII, 46.
- Kukkur, *Cuttack* (73 H/14 ; 20° 30' : 85° 46'), kaolin. W. T. B., **M**, I, 279.
- Kukkurbhit (Kakadbhit), *Cutch* (41 F/7 ; 23° 16' 30" : 69° 21'), Jurassic plants. W. T. B., **M**, VI, 25=Kukurbhit.
- Kukoowasan, *Rajpipla* (46 G/9 ; 21° 59' 30" : 73° 43'), Cretaceous fossils. W. T. B., **M**, VI, 336.
- Kukturuk, *Kashgar* (42 K/12 ; 37° 7' : 74° 44'), Sarikol slates. H. H. H., **R**, XLV, 300.
- Kukurbhit, *Cutch* (41 E/7 ; 23° 16' 30" : 69° 21'), Jurassic plants. A. B. W., **M**, IX, 173 ; O. F., **R**, IX, 34=Kukurbhit.

- Kukurhutti, *Simla* (53 B/13;  $31^{\circ} 0' : 76^{\circ} 58' 30''$ ), limestone, pseudo-organisms. H. B. M., **M**, III, pt. 2, 54=Kakarhatti.
- Kulali, *Punch* (43 K/6;  $33^{\circ} 39' : 74^{\circ} 22' 30''$ ), rhyolitic felsite. D. N. W., **M**, LI, 224; Gondwana outlier, 244, 310.
- Kulan, *Gou* (48 E/14;  $15^{\circ} 35' : 73^{\circ} 58'$ ), manganese-ore. L. L. F., **M**, XXXVII, 984, 989.
- Kulan, *Kashmir* (43 N/3;  $34^{\circ} 16' : 75^{\circ} 9'$ ), Panjal slates. R. L., **R**, XI, 46; lower limit of glaciation. XII, 29; **M**, XXII, 34.
- Kularun, *Simla* (53 A/16;  $31^{\circ} 10' 30'' : 76^{\circ} 57'$ ), Subathu beds. H. B. M., **M**, III, pt. 2, 87.
- Kulbhone, *Thana* (47 A/15;  $19^{\circ} 30' : 72^{\circ} 59'$ ), hot spring. T. O., **M**, XIX, 108.
- Kuldan, *Persia* (17 P/15;  $28^{\circ} 17' : 55^{\circ} 54'$ ), fissures in Bakhtiyari conglomerate. G. E. P., **M**, XLVIII, pt. 2, 110.
- Kuldana, *Rawalpindi* (43 G/5;  $33^{\circ} 56' : 73^{\circ} 24'$ ), passage beds, Nummulitic-Mureo stage. A. B. W., **R**, VII, 68; C. S. M., **M**, XXVI, 225 (fig.)=Kooldunna.
- Kuldum, *Keonjhar* (73 F/8;  $22^{\circ} 6' : 85^{\circ} 29'$ ), kaolin. E. H. P., **R**, LX, 44.
- Kulgi, *N. Kanara* (48 I/12;  $15^{\circ} 9' 30'' : 74^{\circ} 38'$ ), Dharwar limestone. E. H. P., **R**, LX, 45; manganese-ore, 47.
- Kulharia R., *Rewah* (64 I/4;  $23^{\circ} 8' : 82^{\circ} 10'$ ), coal seam. T. W. H. H., **R**, XIV, 317.
- Kuliana, *Muyurbhanj* (73 J/12;  $22^{\circ} 4' : 86^{\circ} 39'$ ), manganese-ore. P. N. B., **R**, XXXI, 170; L. L. F., **M**, XXXVII, 617.
- Kuliaupur, *Manbhumi* (73 I/4;  $23^{\circ} 2' : 86^{\circ} 3'$ ), copper-ore. V. B., **R**, III, 76.
- Ku-li-kha, *Yunnan* (92 H/11;  $24^{\circ} 26' : 97^{\circ} 42'$ ), crystalline rocks. J. C. B., **R**, XLIII, 185.
- Kuling, *Spiti* (52 L/4;  $32^{\circ} 2' 30'' : 78^{\circ} 5'$ ), Carboniferous and Triassic beds. F. S., **M**, V, 25, 34 (fig.); Trias-Rhatic beds. C. L. G., **M**, XXIII, 221 (Pl. i, fig. 2); Ladinic beds. A. K., **A. R.**, 1900, 214; Carboniferous beds. H. H. H., **M**, XXXVI, 35, 42; Productus Shales, 53.
- Kulis (Kulesh), *Hazara* (43 F/7;  $34^{\circ} 28' : 73^{\circ} 23' 30''$ ), galena. A. B. W., **R**, XII, 127.
- Kullong rock, *Khasi Hills* (78 O/10;  $25^{\circ} 36' : 91^{\circ} 33'$ ), granite boss. T. O., **M**, I, 154 (fig.).
- Kulsapaud (Kalasapadu), *Cuddapah* (57 I/16;  $15^{\circ} 6' 30'' : 78^{\circ} 56' 30''$ ), slates and limestone. W. K., **M**, VIII, 139, 230.
- Kul-uch-kul, *Russian Turkestan* (42 G/14;  $37^{\circ} 35' : 73^{\circ} 57'$ ), Sarikol Shales. H. H. H., **R**, XLV, 312.
- Kulumangi, *Raichur* (57 A/10;  $15^{\circ} 43' 30'' : 76^{\circ} 32' 30''$ ), Dharwar rocks. R. B. F., **R**, XXII, 31.
- Kum Kaigi, *Persia* (25 E/6;  $27^{\circ} 32' : 57^{\circ} 22'$ ), Siwalik beds. G. H. T., **R**, LIII, 67.
- Kumalo, *Tchri* (53 J/1;  $30^{\circ} 52' : 78^{\circ} 7'$ ), Bawar quartzite-gneiss boundary. C. S. M., **R**, XX, 28.
- Kumar, *Singhbhum* (73 F/5;  $22^{\circ} 50' 30'' : 85^{\circ} 16'$ ), tourmaline-pegmatite. J. A. D., **M**, LIV, 131.
- Kumaranwali, *Shahpur* (38 P/15;  $32^{\circ} 27' 30'' : 71^{\circ} 58' 30''$ ), Productus Limestones fauna. F. C. R., **R**, LXII, 430.

- Kumaraswami, *Sandur* (57 A/12; 15° 0' 30" : 76° 34'), hematite-quartzite. R. B. F., **M**, XXV, 123; lateritic terrace, 179; manganese-ore. L. L. F., **M**, XXXVII, 1003.
- Kumardhubi, *Manbhum* (73 I/14; 23° 44' 30" : 86° 47'), Barakar plants. O. F., **R**, X, 74.
- Kumari, *Nagpur* (55 O/7; 21° 26' 30" : 79° 18'), manganese-ore. L. L. F., **M**, XXXVII, 420, 966.
- Kumarpur, *Burdwan* (73 I/14; 23° 42' : 86° 56' 30"), Panchet plants. E. R. G., **R**, LXIII, 205.
- Kumbakera, *Ranchi* (73 B/11; 22° 29' : 84° 44' 30"), lead-ore. L. L. F., **R**, LXV, 52.
- Kumbhari, *Yeotmal* (56 M/1; 19° 58' : 79° 5' 30"), coal, analysis. W. T. B., **R**, 1, 24; T. W. H. H., **M**, XIII, 52.
- Kumbharde, *Belgaum* (48 I/11; 15° 25' : 74° 35' 30"), manganese-ore. L. L. F., **M**, XXXVII, 641.
- Kumbharmatt, *Ratnagiri* (47 H/8; 16° 3' 30" : 73° 30'), kaolin. E. H. P., **R**, LV, 21.
- Kumbi, Kumbhi, *Sibi* (39 C/16; 29° 0' 30" : 68° 56'), freshwater shell beds with vertebrates. W. T. B., **M**, XX, 206; G. E. P., **R**, XXXVII, 142; nummulitic limestone, 144; *Vivipara atavia*. B. P., **R**, LI, 365 (Pl. xi, figs. 1, 2).
- Kumeroa, *Charkari* (63 D/5; 24° 47' : 80° 19' 30"), diamond workings. H. B. M., **M**, II, 69; F. R. M., **M**, VII, 68=Khameria.
- Kumgala, *Punch* (43 K/1; 33° 55' : 74° 10'), Eocene limestone, fossils. D. N. W., **M**, LI, 261, 296.
- Kumher, *Bharatpur* (54 E/7; 27° 19' : 77° 23'), Ajabgarh series. A. M. H., **M**, XLV, 80.
- Kumi, *Drug* (64 C/14; 21° 34' 30" : 80° 48'), iron-ore. P. N. B., **R**, XX, 168.
- Kumira, *Chittagong* (79 N/11; 22° 31' : 91° 43'), gas spring. E. H. P., **M**, XL, 199, 313.
- Kumki, *Singpho Hills* (92 A/15; 27° 16' : 96° 54'), gneiss. T. D. L., **R**, XIX, 113.
- Kummerallia (Nurpur Karmalia), *Attock* (43 C/5; 33° 49' : 72° 16'), 'erratics'. A. B. W., **R**, X, 124.
- Kummumet, *Warangal* (65 C/4; 17° 15' : 80° 9'), massive gneiss. W. K., **M**, XVIII, 203, 207=Khammamett.
- Kumsi, *Shimoga* (48 N/8; 14° 3' : 75° 24'), pseudo-manganite. L. L. F., **M**, XXXVII, 85; manganiferous soil, 404; manganese-ore, 442, 466, 548, 1132, 1135 (Pl. lvii).
- Kumsu, *Bashahr* (53 E/11; 31° 23' : 77° 38'), 'central gneiss'. C. A. M., **R**, X, 215.
- Kumsungtola, *Singhbhum* (73 F/2; 22° 45' : 85° 11'), biotite-schist. J. A. D., **M**, LIV, 57.
- Kumuna, *Khariar* (64 L/10; 20° 30' : 82° 41'), porphyritic granite. V. B., **R**, X, 183.
- Kamunur, *Gulbarga* (56 H/2; 16° 37' : 77° 10'), pistacite-gneiss. R. B. F., **M**, XII, 257.
- Kunar R., *Hazaribagh* (73 E/13; 23° 49' : 85° 50'), coal. R. R. S., **M**, XLI, 56 =Koonar R.

- Kunaveram, *Godavari* (65 G/6;  $17^{\circ} 34' 30''$  :  $81^{\circ} 15' 30''$ ), molybdenite. G. H. T., **R**, LII, 306=Kunnavaram.
- Kunchur, *Bellary* (48 N/14;  $14^{\circ} 44'$  :  $75^{\circ} 49'$ ), Dharwar tract. R. B. F., **M**, XXV, 76.
- Kund, *Chamba* (52 D/11;  $32^{\circ} 26'$  :  $76^{\circ} 34'$ ), Blaini conglomerate. C. A. M., **R**, XVI, 38.
- Kund, *Gurgaon* (53 D/8;  $28^{\circ} 8'$  :  $76^{\circ} 23'$ ), slate quarries. H. H. H., **R**, XLII, 85; A. M. H., **M**, XLV, 87, 127.
- Kund Kaplas, *Jammu* (43 P/9;  $32^{\circ} 52'$  :  $75^{\circ} 41'$ ), 'central gneiss'. C. A. M., **R**, XVI, 37.
- Kundah Ghat, *Simla* (53 F/1;  $30^{\circ} 58'$  :  $77^{\circ} 6'$ ), faults in Simla slates. H. B. M., **M**, III, pt. 2, 37 (fig.)=Kandaghat.
- Kunda-Kandukar, *Nellore* (57 M/15;  $15^{\circ} 16'$  :  $79^{\circ} 55'$ ), travertine. R. B. F., **M**, XVI, 55, 99.
- Kundal, *Chota Udaipur* (46 F/15;  $22^{\circ} 28'$  :  $73^{\circ} 54'$ ), gneissose granite. G. V. H., **R**, LIX, 344; graphitic schist, 355.
- Kundal, *Mianwali* (38 P/6;  $32^{\circ} 34' 30''$  :  $71^{\circ} 18'$ ), oil seepages. E. H. P., **M**, XL, 428.
- Kundali, *Chhindwara* (55 N/1;  $22^{\circ} 47'$  :  $79^{\circ} 14'$ ), striations on Gondwana sandstones. E. H. P., **R**, LX, 95; fire-clay. LXII, 34.
- Kundapali, *Adilabad* (56 M/15;  $19^{\circ} 20'$  :  $79^{\circ} 45'$ ), Chikiala conglomerates. W. K., **M**, XVIII, 294.
- Kundaw, *Yamethin* (93 D/8;  $20^{\circ} 12'$  :  $96^{\circ} 19'$ ), iron-ore. E. H. P., **R**, LIX, 44; galena, 48.
- Kundhour, *Surguja* (64 J/11;  $23^{\circ} 25' 30''$  :  $82^{\circ} 42'$ ), coal seams. T. W. H. H., **M**, XXI, 202, 242.
- Kundit Kuraiah, *Santhal Parganas* (73 M/1;  $23^{\circ} 58'$  :  $87^{\circ} 9' 30''$ ), coalfield. T. W. H. H., **M**, VII, 254 (Pl. ii); R. R. S., **M**, XLI, 40.
- Kundla, *Alwar* (54 A/8;  $27^{\circ} 12'$  :  $76^{\circ} 29'$ ), hornstone breccia. A. M. H., **M**, XLV, 66.
- Kundlu, *Simla* (53 A/12;  $31^{\circ} 11' 30''$  :  $76^{\circ} 42'$ ), lakes. H. B. M., **R**, XIV, iv =Kundulu.
- Kundol, *Idar* (46 E/6;  $23^{\circ} 39' 30''$  :  $73^{\circ} 26'$ ), steatite and asbestos. C. S. M., **R**, XLII, 52; **M**, XLIV, 99, 148.
- Kundra, *Sukkur* (40 A/14;  $27^{\circ} 35'$  :  $68^{\circ} 52'$ ), indications of oil. T. D. L., **R**, XXVIII, 58.
- Kundrukocha, *Singbhum* (73 J/3;  $22^{\circ} 28'$  :  $86^{\circ} 14' 30''$ ), auriferous lodes. L. L. F., **R**, LIII, 269.
- Kundulu, *Simla* (53 A/12;  $31^{\circ} 11' 30''$  :  $76^{\circ} 42'$ ), lakes. H. B. M., **M**, III, pt. 2, 157; unconformity, Chinji-Dagshai beds. E. H. P., **R**, LV, 41=Kundlu.
- Kundyamelur, *S. Arcot* (58 M/10;  $11^{\circ} 31' 30''$  :  $79^{\circ} 39'$ ), shell beds worked for lime. H. F. B., **M**, IV, 192=Kandyamallur.
- Kunean, *Rawalpindi* (43 G/6;  $33^{\circ} 42' 30''$  :  $73^{\circ} 29' 30''$ ), M. Siwalik beds. D. N. W., **M**, LI, 356.
- Kuneree, *Chanda* (56 M/14;  $19^{\circ} 44' 30''$  :  $79^{\circ} 46'$ ), augite-norite, charnockite series. K. H., **R**, LV, 256.

- Kunghka, *N. Shan States* (93 E/8 ; 23° 13' : 97° 19'), iron-ore. E. L. C., **R**, LIV, 431 ; J. C. B., **R**, LXI, 184.
- Kung-lang, *Yunnan* (101 D/5 ; 24° 50' 30" : 100° 19' 30"), copper miné. J. C. B., **M**, XLVII, 120.
- Kungora (Ghangora), *Dehra Dun* (53 J/3 ; 30° 22' : 78° 0' 30"), high-level boulder beds. H. B. M., **M**, III, pt. 2, 154.
- Kung-po, *Yunnan* (92 K/12 ; 25° 13' : 98° 33'), volcanoes. J. C. B., **R**, XLIII, 192 (Pls. xii & xv, fig. 1).
- Kungri, *Spiti* (52 L/4 ; 32° 3' : 78° 5'), Carboniferous beds. H. H. H., **M**, XXXVI, 42 ; Trias, 61.
- Kungribingri pass, *Almora* (62 B/2 ; 30° 38' : 80° 14'), Giumal sandstone. C. L. G., **R**, XXVI, 21 (Pl. i) ; C. D., **M**, XXVIII, 2.
- Kungur Mt., *Kashgar* (42 N/2 ; 38° 39' : 75° 12'), granite. H. H. H., **R**, XLV, 323.
- Kungyangon, *Hanthawaddy* (94 D/3 ; 16° 26' : 96° 1'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 237.
- Kunhawt, *N. Shan States* (93 F/1 ; 22° 48' : 97° 11'), rhyolite, Bawdwin series. T. D. L., **M**, XXXIX, pt. 2, 56.
- Kunhnitkway, *Amherst* (95 E/13 ; 15° 48' : 97° 52'), tin-ore. E. H. P., **R**, LXIII, 55, 97.
- Kunhur R., *Mirzapur* (63 P/3 ; 24° 28' : 83° 8'), L. Vindhyan beds, section. F. R. M., **M**, VII, 42.
- Kuni R., *Patiala* (53 E/4 ; 31° 7' : 77° 2' 30"), carbonaceous band, Jutogh series. G. E. P., **M**, LIII, 109.
- Kunigal, *Tumkur* (57 G/4 ; 13° 1' : 77° 2'), Dharwar band. R. B. F., **R**, XXI, 54.
- Kunjamullay, *Salem* (58 I/2 ; 11° 37' : 78° 4'), iron-ore. W. K., **M**, IV, 379 (fig. & Pls. iii & v) = Kanjamalai.
- Kunjeea Joor, *Manbhum* (73 I/6 ; 23° 42' : 86° 23' 30"), Barakar stage, section. T. W. H. H., **M**, V, 308.
- Kunkal, *Chhindwara* (55 J/8 ; 22° 4' : 78° 28' 30"), granite batholith. C. S. M., **R**, XLV, 129.
- Kunkaw, *N. Shan States* (93 F/2 ; 22° 39' 30" : 97° 4' 30"), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 75.
- Kunlacheru, *Kistna* (65 H/1 ; 16° 57' : 81° 7' 30"), Damuda plants. W. T. B., **R**, V, 27 ; O. F., **R**, LX, 139, 141 ; W. K., **R**, VII, 159 ; X, 59 ; **M**, XVI, 210 ; XVIII, 266.
- Kunlein, *Mandalay* (93 C/5 ; 21° 52' 30" : 96° 24'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 90.
- Kunnali, *Tehri* (53 J/11 ; 30° 18' : 78° 41'), limestone and quartzite. C. S. M., **R**, XX, 32.
- Kunnavaputty, *Salem* (58 I/4 ; 11° 10' 30" : 78° 9'), iron-ore beds. W. K., **M**, IV, 286.
- Kunnavaram, *Godavari* (65 G/6 ; 17° 34' 30" : 81° 15' 30"), molybdenite. H. H. H., **R**, XLVII, 22 = Kunaveram.
- Kunnigiri hill (Marri Gutta), *Warangal* (65 C/11 ; 17° 18' : 80° 35'), garnetiferous rocks. W. K., **M**, XVIII, 204 ; coalfield. R. R. S., **M**, XLI, 96.

- Kunniyur, *S. Arcot* (58 M/1; 11° 46' : 79° 6' 30"), inclusions of schist in granite. W. K., **M**, IV, 300.
- Kunnod, *Indore* (55 B/10; 22° 40' : 76° 45'), metamorphic rocks. W. T. B., **M**, VI, 244.
- Kuntamuddi, *Guntur* (65 D/1; 16° 49' : 80° 6'), section, Kurnool series. R. B. F., **M**, VIII, 306 (Pl. viii, fig. 4).
- Kuntha, *L. Chindwin* (84 O/1; 21° 54' 30" : 95° 8'), alteration of Pegu clays by intrusions. E. H. P., **R**, LX, 88.
- Kuntkote, *Cutch* (41 I/7; 23° 29' : 70° 28'), Jurassic ammonites. W. W., **R**, IV, 99; A. B. W., **M**, LX, 132.
- K'un-yang Chou, *Yunnan* (101 L/10; 24° 40' : 102° 35'), M. Carboniferous beds. J. C. B., **R**, XLIV, 100; Pleistocene fossils, 116.
- Kunzam La, *Lahul* (52 H/11; 32° 23' 30" : 77° 38'), 'central gneiss', F. S., **M**, V, 15; Ordovician conglomerate. H. H. H., **M**, XXXVI, 30.
- Kupui, *Singhbhum* (73 F/10; 22° 36' : 85° 34'), chert. J. A. D., **M**, LIV, 28; ladder vein in shales, 142 (fig.).
- Kurabar, *Rewah* (64 E/3; 23° 22' : 81° 6' 30"), supra-Barakar beds, plants. T. W. H. H., **M**, XXI, 209.
- Kurado, *Goa* (48 I/3; 15° 22' : 74° 11'), manganesc-ore. L. L. F., **M**, XXXVII, 989.
- Kurahi (Kherahitola), *Palamau* (73 A/1; 23° 54' 30" : 84° 4'), iron-ore. V. B., **M**, XV, 116.
- Kurai, *Seoni* (55 O/9; 21° 49' : 79° 30' 30"), manganese-ore. L. L. F., **M**, XXXVII, 978.
- Kuramgar, *Ranchi* (73 A/8; 23° 10' 30" : 84° 21'), laterite. C. S. F., **M**, XLIX, 179.
- Kuranga, *Kathiawar* (41 F/4; 22° 2' 30" : 69° 10'), selenite. F. F., **M**, XXI, 134.
- Kurar Sir, *Kohat* (38 O/8; 33° 14' : 71° 21'), Tertiary beds, section. A. B. W., **M**, XI, 278 (Pl. ix, fig. 49); rock-salt. H. W., **M**, XI, 321; bituminous bands in salt. E. H. P., **M**, XL, 421.
- Kurasia, *Korea* (64 I/8; 23° 13' : 82° 23' 30"), coalfield. T. W. H. H., **M**, XXI, 202; R. R. S., **M**, XLI, 83; L. L. F., **M**, XLI, 195 (Pl. xxx); analyses, 183; coal outcrops, 221.
- Kuraya, *Gwalior* (54 K/1; 25° 53' 30" : 78° 0' 30"), Kaimur conglomerate, section. F. R. M., **M**, VII, 56=Kareya and Karhia.
- Kurela, *Khairagarh* (64 C/15; 21° 16' 30" : 80° 52' 30"), altered Chilpi Ghat beds. P. N. B., **R**, XXI, 60.
- Kureli, *Rewah* (64 E/15; 23° 23' 30" : 81° 45'), coal seams. T. W. H. H., **M**, XXI, 183, 243.
- Kurgaon, *Karauli* (54 B/15; 26° 27' : 76° 51'), autoclastic breccia. A. M. H., **M**, XLV, 152.
- Kurgod, *Bellary* (57 A/15; 15° 21' : 76° 50'), granite-gneiss. R. B. F., **R**, XIX, 101; **M**, XXV, 60.
- Kurguthidhar, *Garhwal* (53 N/13; 30° 45' 30" : 79° 58'), glacier. C. L. G., **M**, XXIII, 151 (fig.).
- Kurhurbari, *Hazaribagh* (72 L/8; 24° 11' : 86° 16'), coalfield. T. W. H. H., **M**, VII, 209 (Pl. i)=Karharbari.

- Kuri, *Spiti* (52 L/12;  $32^{\circ} 0' : 78^{\circ} 40'$ ), brachiopoda in L. Palaeozoic sandstone. F. S., **M**, V, 19=Kurig.
- Kuri Kuppa, *Bellary* (57 A/12;  $15^{\circ} 13' : 76^{\circ} 39'$ ) porphyry. R. B. F., **M**, XXV, 51, 200.
- Kuriak Tangi, *Sibi* (39 C/1;  $29^{\circ} 57' : 68^{\circ} 13'$ ), landslip. R. D. O., **R**, XXV, 25.
- Kurig (Kaurik), *Spiti* (52 L/12;  $32^{\circ} 0' : 78^{\circ} 40'$ ), Rupshu granite. H. H. H., **M**, XXXVI, 98=Kuri.
- Kurigram, *Rangpur* (78 G/9;  $25^{\circ} 49' : 89^{\circ} 39'$ ), earthquake, 1897, sand-vents. R. D. O., **M**, XXIX, 319.
- Kurirosum, *Kohat* (38 O/7;  $33^{\circ} 18' 30'' : 71^{\circ} 27' 30''$ ), Tertiary beds, section. A. B. W., **M**, XI, 199 (Pl. iii, fig. 13).
- Kurjoli, *Singhbhum* (73 F/6;  $22^{\circ} 41' : 85^{\circ} 28' 30''$ ), epidiorite. J. A. D., **M**, LIV, 90.
- Kurjun, *Burodu* (46 G/3;  $21^{\circ} 18' 30'' : 73^{\circ} 0' 30''$ ), Eocene fossils. W. T. B., **M**, VI, 373.
- Kurleh (Karle), *Kurandvad* (48 I/5;  $15^{\circ} 46' 30'' : 74^{\circ} 25'$ ), laterite. R. B. F., **M**, XII, 204; bauxite. C. S. F., **M**, XLIX, 65.
- Kurm (Garhan), *Hazara* (43 B/16;  $34^{\circ} 4' 30'' : 72^{\circ} 49'$ ), altered shales, Infra-Triassic. C. S. M., **M**, XXVI, 55.
- Kurma, *Hazaribagh* (73 E/10;  $23^{\circ} 41' : 85^{\circ} 34' 30''$ ), pseudomorphic quartz in fault-rock. V. B., **M**, VI, 128.
- Kurmakra (Karmahkari), *Chhindwara* (55 K/14;  $21^{\circ} 40' : 78^{\circ} 51'$ ), calciphyre. P. N. D., **R**, XXXIII, 223.
- Kurmura, *Bhandara* (55 O/10;  $21^{\circ} 32' 30'' : 79^{\circ} 40'$ ), pyrolusite, L. L. F., **M**, XXXVII, 79; rhodonite, 141; manganese-ore, 391, 751.
- Kurnool, *Madras* (57 I/1;  $15^{\circ} 50' : 78^{\circ} 3'$ ), Narji limestone. W. K., **M**, VIII, 78; basal bed, Cuddapah, 159; serpentinous limestone, 166.
- Kuro, *Jubbulpore* (64 A/3;  $23^{\circ} 29' : 80^{\circ} 8' 30''$ ), manganiferous hematite. L. L. F., **M**, XXXVII, 826.
- Kurophon, *Ladakh* (43 M/14;  $35^{\circ} 41' : 75^{\circ} 55' 30''$ ), Triassic limestone. R. L., **R**, XIV, 14.
- Kuropodar, *Kalahandi* (64 P/12;  $20^{\circ} 9' : 83^{\circ} 37' 30''$ ), basic dyke. T. L. W., **M**, XXXIII, pt. 3, 14.
- Kurram Tangi, *Bannu* (38 K/12;  $33^{\circ} 3' : 70^{\circ} 31'$ ), weir-site. E. H. P., **R**, LXIII, 68.
- Kurree Joor, *Manbhum* (73 I/5;  $23^{\circ} 47' : 86^{\circ} 24'$ ), Barakar stage, section. T. W. H. H., **M**, V, 292; coal seams, 326.
- Kurreer (Khadir) I., *Cutch* (41 I/5;  $23^{\circ} 52' : 70^{\circ} 20'$ ), geology. A. B. W., **M**, IX, 103 (figs.).
- Kurribiem (Karambiyam), *Trichinopoly* (58 M/4;  $11^{\circ} 11' : 79^{\circ} 2'$ ), ammonites, Trichinopoly stage. H. F. B., **M**, IV, 121.
- Kurrinculputty (Kurunikkulattupatti), *Trichinopoly* (58 J/2;  $10^{\circ} 43' 30'' : 78^{\circ} 10' 30''$ ), crystalline limestone. W. K., **M**, IV, 272, 273.
- Kurro R., *Chota Udaipur* (46 J/4;  $22^{\circ} 7' : 74^{\circ} 1'$ ), Cretaceous beds, section. W. T. B., **M**, VI, 325.
- Kurruckpur, *Monghyr* (72 K/12;  $25^{\circ} 7' : 86^{\circ} 33'$ ), quartzites and schists. H. B. M., **R**, II, 43=Kharakhpur.

- Kurruk, *Kohat* (38 O/4;  $33^{\circ} 7' : 71^{\circ} 6'$ ), Tertiary beds, section. A. B. W., **M**, XI, 289 (Pl. viii, fig. 46); salt quarries. H. W., **M**, XI, 300, 311.
- Kurruppa, *Kohat* (38 O/7;  $33^{\circ} 21' : 71^{\circ} 19' 30''$ ), Nummulitic series, section. A. B. W., **M**, XI, 195 (Pl. i, fig. 8).
- Kursoong, Kursiong, *Darjeeling* (78 B/5;  $26^{\circ} 53' : 88^{\circ} 16' 30''$ ), Cachar earthquake, 1869. T. O., **M**, XIX, 32; Srimangal earthquake, 1918. M. S., **M**, XLVI, 28.
- Kurshru (Kashu) Algad, *Kohat* (38 K/16;  $33^{\circ} 3' : 70^{\circ} 53'$ ), Tertiary beds, section. A. B. W., **M**, XI, 248 (Pl. vii, figs. 36, 37).
- Kurtallam (Kuttalam), *Tinnevely* (58 H/5;  $8^{\circ} 56' : 77^{\circ} 16'$ ), anticline in gneiss. W. K., **R**, XV, 90.
- Kurthitola, *Balaghat* (64 C/1;  $21^{\circ} 57' : 80^{\circ} 14' 30''$ ), manganese-ore. L. L. F., **M**, XXXVII, 732.
- Kuruchun, *Ladakh* (52 G/12;  $33^{\circ} 6' 30'' : 77^{\circ} 33'$ ), hot spring. T. O., **M**, XIX, 127.
- Kuruli, *Jhelum* (43 D/14;  $32^{\circ} 41' : 72^{\circ} 46' 30''$ ), coal seam. R. R. S., **M**, XLI, 109=Karuli.
- Kurumchut, *Shahabad* (63 P/9;  $24^{\circ} 49' : 83^{\circ} 40'$ ), fault in Kaimur beds. F. R. M., **M**, VII, 52.
- Kurumtand, *Hazoribagh* (73 E/1;  $23^{\circ} 47' : 85^{\circ} 3'$ ), Raniganj stage, coal. A. J., **M**, LII, 132.
- Kurutoli, *Ranchi* (73 F/2;  $22^{\circ} 39' 30'' : 85^{\circ} 5'$ ), garnet. J. A. D., **M**, LIV, 60.
- Kusaha, *Korea* (64 I/7;  $23^{\circ} 26' : 82^{\circ} 30'$ ), coal seam. T. W. H. H., **M**, XXI, 201, 243.
- Kusak, *Jhelum* (43 H/2;  $32^{\circ} 42' 30'' : 73^{\circ} 4'$ ), Cambrian beds. A. B. W., **M**, XIV, 156 (Pl. xvii); L. L. F., **R**, LXV, 115=Khusak.
- Kuseru, *Maihar* (63 D/12;  $24^{\circ} 10' : 80^{\circ} 41'$ ), passago beds, L.-U. Bhandar. F. R. M., **M**, VII, 94.
- Kush Robat, *Afghanistan* (29 J/2;  $34^{\circ} 39' : 62^{\circ} 5' 30''$ ), volcanic breccia, Red Grit series. C. L. G., **R**, XIX, 58.
- Kushai, *Rewah* (64 E/7;  $23^{\circ} 23' : 81^{\circ} 25' 30''$ ), coal seams. T. W. H. H., **M**, XXI, 243.
- Kushalgarh, *Alwar* (54 A/7;  $27^{\circ} 26' : 76^{\circ} 26'$ ), limestone and hornstone breccia, Alwar-Ajabgarh series. C. A. H., **R**, X, 88; A. M. H., **M**, XLV, 58, 68; iron-ore, 117.
- Kushalghar, *Kohat* (38 O/15;  $33^{\circ} 29' : 71^{\circ} 54'$ ), L. Siwalik fauna. R. L., **R**, IX, 92, 94; A. B. W., **R**, XII, 101; G. E. P., **R**, XXXVII, 163; XL, 189; XLIV, 265.
- Kushk, *Afghanistan* (29 J/9;  $34^{\circ} 52' 30'' : 62^{\circ} 30' 30''$ ), shell limestone, Jurassic. C. L. G., **R**, XVIII, 63.
- Kushmahar, *Rewah* (63 H/11;  $24^{\circ} 19' : 81^{\circ} 41'$ ), wind-gap. R. D. O., **M**, XXXI, 40.
- Kushnob, *Sibi* (34 N/11;  $30^{\circ} 25' : 67^{\circ} 35'$ ), volcanic rocks. E. V., **R**, XXXI, 166 (note).
- Kushtia, *Nadia* (79 E/1;  $23^{\circ} 55' : 89^{\circ} 7'$ ), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 224.



- Kushtugi, *Raichur* (57 A/1 ; 15° 45' 30" : 76° 11' 30"), granitoid gneiss. R. B. F., **M**, XII, 42.
- Kushuga, *Kashgar* (42 I/14 ; 39° 40' : 74° 48'), Ferghana series, fossils. H. H. H., **R**, XLV, 320.
- Kusiali, *Garhwal* (53 K/5 ; 29° 55' 30" : 78° 28' 30"), meteorite. J. C. B., **M**, XLIII, 223.
- Kuski, *Idar* (46 E/6 ; 23° 38' : 73° 22'), Delhi quartzite. C. S. M., **M**, XLIV, 96.
- Kusmi, *Jubbulpore* (64 A/6 ; 23° 44' : 80° 22'), aluminous laterite. C. S. F., **M**, XLIX, 110, 118.
- Kussadech, *Hazaribagh* (73 E/1 ; 23° 54' 30" : 85° 0' 30"), Talchir inlier, plants. A. J., **M**, LII, 11 ; Karharbari stage, 21.
- Kussilong, *Chittagong* (84 B/6 ; 22° 44' : 92° 17'), Cachar earthquake, 1869. T. O., **M**, XIX, 34.
- Kussoompur, *Delhi* (53 H/2 ; 28° 33' 30" : 77° 9' 30"), kaolin. C. A. H., **R**, XIII, 249=Kasumpur.
- Kustaur, *Manbhum* (73 I/7 ; 23° 24' : 86° 27'), manganiferous iron-ore. L. L. F., **M**, XXXVII, 615.
- Kusukunahal (Kachaknur), *Gulbarga* (56 D/10 ; 16° 31' 30" : 76° 35' 30"), basal conglomerate, Bhima series. R. B. F., **M**, XII, 142.
- Kutarbaga, *Sambalpur* (64 O/14 ; 21° 42' : 83° 59' 30"), hematite lodes. L. L. F., **R**, LIII, 275=Kudderbuga.
- Kutch Pat, *Ranchi* (73 A/8 ; 23° 12' : 84° 20'), bauxite. C. S. F., **M**, XLIX, 179.
- Kutchra, *Attok* (43 C/6 ; 33° 35' : 72° 20'), Nummulitic shale. E. H. P., **M**, XL, 389.
- Kutha, *Hazaribagh* (73 E/10 ; 23° 37' : 85° 32' 30"), laterite. V. B., **M**, VI, 126.
- Kuthapur (Kutbapur), *Patiala* (53 D/4 ; 28° 6' : 76° 8'), building stone. P. N. B., **R**, XXXIII, 61.
- Kuthola, *Jubbulpore* (64 A/3 ; 23° 28' : 80° 7'), manganiferous hematite. F. R. M., **R**, XVI, 102=Khatola.
- Kuthulna, *Nagpur* (55 O/3 ; 21° 25' : 79° 2'), Archæan Quartzite. L. L. F., **M**, XXXVII, 855=Kothulna.
- Kuti Yangti R., *Almora* (62 B/11 ; 30° 19' : 80° 45'), Carboniferous-Trias, sections. C. L. G., **M**, XXIII, 183 (Pls. viii, ix) ; Triassic fauna. C. D., **M**, XXXVI, 227, 322.
- Kutipi, *Singhbhum* (73 F/6 ; 22° 38' : 85° 23'), travertine. J. A. D., **M**, LIV, 165.
- Kutiya, *Kathiawar* (41 G/14 ; 21° 37' : 69° 59'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 111.
- Kutkai, *N. Shan States* (93 E/15 ; 23° 27' : 97° 56'), Burma earthquake, 1912. J. C. B., **M**, XLII, 37.
- Kutkona, *Surguja* (64 M/4 ; 23° 3' : 83° 2' 30"), coal seam. V. B., **R**, XV, 109 ; R. R. S., **M**, XLI, 82.
- Kutola, *Bijawar* (54 P/6 ; 24° 34' : 79° 22'), Bijawar-granite boundary. H. B. M., **M**, II, 38.
- Kutragas, *Kalahandi* (65 M/4 ; 19° 13' : 83° 4' 30"), garnetiferous epidiorite. T. L. W., **M**, XXXIII, pt. 3, 14.

- Kutras, *Manbhum* (73 I/5 ; 23° 48' 30" : 86° 18'), carbonaceous shales in Talchirs. T. W. H. H., **M**, V, 240=Katras.
- Kuttan Kuli, *Tinnevelly* (58 H/16 ; 8° 13' : 77° 47'), sand dune. R. B. F., **M**, XX, 89 (fig.).
- Kuttipali, *Malabar* (58 B/1 ; 10° 46' : 76° 2'), marine shells, 250 ft. above sea-level. P. L., **M**, XXIV, 234.
- Kuttippuram, *Malabar*. (58 B/1 ; 10° 50' 30" : 76° 2'), meteorite. J. C. B., **R**, XLV, 209 (Pls. vii-xv) ; **M**, XLIII, 223.
- Kuttra Ghat, *Mirzapur* (63 L/1 ; 24° 53' : 82° 11'), Vindhyan shales. J. G. M., **M**, II, 143 ; Rewah escarpment. F. R. M., **M**, VII, 72 (Pl. ii).
- Kuttree (Katri) R., *Manbhum* (73 I/5 ; 23° 46' : 86° 18'), Barakar stage, section. T. W. H. H., **M**, V, 273 ; coal seams, 328.
- Kuttungee, *Jubbulpore* (55 M/15 ; 23° 26' : 79° 47'), L. Vindhyan, outliers. F. R. M., **M**, VII, 29 ; U. Rewah sandstone, 72 ; U. Bhandar stage, section, 97 ; sub-aerial denudation of Vindhyan, 109 (fig.).
- Kutumbah, *Gaya* (72 D/2 ; 24° 37' : 84° 14'), L. Vindhyan trappoid rock. E. V., **M**, XXXI, 99.
- Kuvesi, *N. Kanara* (48 I/7 ; 15° 19' : 74° 20'), manganese-ore. E. H. P., **R**, LXII, 58.
- Kuwaru, *Simla* (53 E/4 ; 31° 3' 30" : 77° 10'), Blaini limestone. G. E. P., **M**, LIII, 86.
- Kuyo, *Angul* (73 H/1 ; 20° 53' : 85° 5'), Damuda beds, relations with Talchirs. W. T. B., **M**, I, 57 (figs.).
- Kuyul, *Tibet* (71 L/15 ; 28° 21' : 86° 57'), Cretaceous limestone. A. M. H., **R**, LIV, 229.
- Kuyuya, *Pakokku* (84 O/3 ; 21° 26' : 95° 12'), Pegu beds. E. H. P., **R**, LIX, 72.
- Kwanu, *Dehra Dun* (53 F/14 ; 30° 41' 30" : 77° 45'), Mandhali series. G. E. P., **M**, LIII, 38, 44.
- Kwatalin(Kywetalin) *Myingyan* (84 O/8 ; 21° 2' : 95° 26'), Miocene fossils. G. C., **R**, XXXVI, 132.
- Kwe-ma-sa, *S. Shan States* (93 D/6 ; 20° 43' : 96° 29'), copper-ore. C. S. M., **A**, **R**, 1900, 151.
- Kweng-bo (Konbat), *Bassein* (85 L/7 ; 16° 28' : 94° 16'), steatite. W. T., **M**, X, 337.
- Kwetha (Kywethe), *Thayetmyo* (85 M/8 ; 19° 2' : 95° 15'), *Ostrea latimarginata*, E. V., **R**, XXXVIII, 127.
- Kwetnapah, *Mandalay* (93 C/5 ; 21° 51' : 96° 15'), fossiliferous limestones. P. N. D., **A**, **R**, 1900, 102=Kyetnapa.
- Kwingauk, *Henzada* (85 O/1 ; 17° 46' : 95° 8'), oil concession. M. S., **R**, XLI, 263.
- Kwonboolay, *Thayetmyo* (85 M/8 ; 19° 15' : 95° 16'), hot spring. W. T., **R**, VI, 69 ; E. H. P., **M**, XL, 240=Ru-le.
- Kyadaw chaung, *Pakokku* (84 K/3 ; 21° 23' : 94° 12'), Tertiary gastropoda. E. V., **R**, LIV, 244 ; LV, 56.
- Kyagar glacier, *Ladakh* (52 E/6 ; 35° 30' : 77° 25'), movements of snout. K. M., **R**, LXIII, 265 (Pl. vii, 27).

- Kyahnyat, *Ruby Mines* (84 M/16; 23° 14' 30" : 95° 59' 30"), Burma earthquake, 1912. J. C. B., **M**, XLII, 47.
- Kyaiklat, *Pyapon* (85 P/11; 16° 27' : 95° 43'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 237.
- Kyaikmaraw, *Amherst* (94 H/11; 16° 22' : 97° 44'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 237=Kyeik Maraw.
- Kya-in, *Amherst* (94 H/16; 16° 13' 30" : 97° 52'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 242.
- Kyam, *Ladakh* (52 J/15; 34° 18' : 78° 57'), hot spring. R. L., **M**, XXII, 44; Tertiary beds, 113; Kuling beds, 182=Kium.
- Kyangin, *Henzada* (85 N/3; 18° 20' : 95° 14' 30"), Pegu earthquake, 1930. J. C. B., **R**, LXV, 240=Keng-yua.
- Kyansein, *Pakokku* (84 O/2; 21° 32' : 95° 7'), olivine-basalt. E. H. P., **R**, LVI, 33.
- Kyarda, *Sirmur* (53 F/11; 30° 28' 30" : 77° 33'), view of Dun. H. B. M., **M**, III, 112 (Pl. ii).
- Kyari Ghat, *Simla* (53 F/1; 31° 0' : 77° 5' 30"), Blaini limestone. C. A. M., **R**, X, 206=Keari and Kiarighat.
- Kyatkon, *Mingyan* (84 P/1; 20° 48' 30" : 95° 15'), dam-sites. E. H. P., **R**, LVI, 26; LVIII, 26.
- Kyatngati(Kyengati), *Wuntho* (83 P/12; 24° 15' : 95° 36'), brine spring. F. N., **R**, XXVII, 119.
- Kyatpin, *Ruby Mines* (93 B/5; 22° 54' : 96° 25'), ruby gravels. T. D. L., **M**, XXXIX, pt. 2, 371.
- Kyatpye, *Yamethin* (93 D/8; 20° 7' : 96° 20' 30"), copper-ore with galena. E. H. P., **R**, LIX, 22, 48; pyrites, 50.
- Kyattein, *Ramri I.* (85 E/11; 19° 17' 30" : 93° 38'), mud vents. E. H. P., **M**, XL, 186, 192.
- Kyatti, *Myingyan* (84 O/8; 21° 7' 30" : 95° 23'), Pegu anticline. E. H. P., **R**, LIX, 72; boring for oil. **M**, XL, 137.
- Kyauk kale, *Ramri I.* (85 E/12; 19° 10' 30" : 93° 36'), gas and oil. E. H. P., **M**, XL, 192.
- Kyauk Tyan, *Ramri I.* (85 F/13; 18° 54' : 93° 57'), selenite. F. R. M., **R**, XI, 222; E. H. P., **M**, XL, 181.
- Kyaukanya, *Tavoy* (95 J/4; 14° 13' 30" : 98° 13'), wolfram mine. J. C. B., **M**, XLIV, 232, 279.
- Kyaukgyi, *N. Shan States* (93 B/7; 22° 28' : 96° 26'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 73.
- Kyaukka, *Pakokku* (84 O/2; 21° 35' : 95° 9'), salt works. E. H. P., **R**, LX, 50.
- Kyaukka hill, *L. Chindwin* (84 N/8; 22° 8' : 95° 17'), volcanic rocks. E. H. P., **R**, LX, 86.
- Kyaukkedet, *U. Chindwin* (84 J/9; 22° 57' 30" : 94° 43' 30"), alluvial gold. E. H. P., **R**, LXIII, 35; iron slag, 36; Plateau gravels and Red earth, 105.
- Kyaukkwet chaung, *Pakokku* (84 K/2; 21° 39' : 94° 12'), Tertiary gastropoda. E. V., **R**, LIII, 130.
- Kyaukkyan, *N. Shan States* (93 B/11; 22° 18' : 96° 44'), fault-scarp. T. D. L., **M**, XXXIX, pt. 2, 90, 337, 362; Rhætic fossils, 285, 298; Burma earthquake, 1912. J. C. B., **M**, XLII, 34.

- Kyaukkyi, *Toungoo* (94 B/15; 18° 19' : 96° 46'), Burma earthquakes, 1912. J. C. B., **M**, XLII, 67, 122.
- Kyaukmadaung, *Tavoy* (95 J/8; 14° 10' : 98° 26'), zinc blende. J. C. B., **M**, XLIV, 221; wolfram mines, 295.
- Kyaukme, *N. Shan States* (93 F/2; 22° 33' : 97° 1'), *Estheria* beds. T. D. L., **M**, XXXIX, pt. 2, 255 (fig.); Burma earthquake, 1912. J. C. B., **M**, XLII, 36.
- Kyaukme, *Thayetmyo* (85 M/2; 19° 34' : 95° 4'), Eocene limestone. M. S., **R**, XLI, 249.
- Kyaukmithwe, *Mergui* (95 P/3; 12° 22' : 99° 7'), coal seam. T. W. H. H., **R**, XXVI, 49.
- Kyaukmo, *N. Shan States* (93 B/7; 22° 24' : 96° 22'), waterfall. T. D. L., **M**, XXXIX, pt. 2, 73 (fig. 4).
- Kyaukmyaung, *Pakokku* (84 K/4; 21° 7' : 94° 12'), Eocene fossils. E. H. P., **R**, LVIII, 45.
- Kyaukpadaung, *Myingyan* (84 P/1; 20° 50' : 95° 8'), ironstone nodules. G. E. G., **M**, XXVIII, 70; volcanic vents. E. H. P., **M**, XL, 45, 131.
- Kyaukpazat, *Henzada* (85 N/3; 18° 15' 30" : 95° 2'), mud volcano. E. H. P., **M**, XL, 177.
- Kyaukpazat, *Wuntho* (83 P/16; 24° 5' : 95° 51'), gold mine. J. C. B., **R**, LVI, 85—Choukpaza.
- Kyaukphyu, *Arakan* (85 E/11; 19° 26' : 93° 33'), coal seam. F. R. M., **R**, XI, 209; E. H. P., **M**, XL, 182; R. R. S., **M**, XLI, 67=Kyaukpyu.
- Kyaukpon, *Myingyan* (84 O/8; 21° 12' : 95° 23' 30"), Irrawadian beds. E. H. P., **R**, LIX, 72.
- Kyaukpyauk, *Ramri I.* (85 E/12; 19° 14' : 93° 34'), Eocene breccia. E. H. P., **M**, XL, 182; petroleum, 191.
- Kyaukpyu, *Arakan* (85 E/11; 19° 26' : 93° 33'), earthquake, 1897, effect on mud volcanoes. R. D. O., **M**, XXIX, 41; Srimangal earthquake, 1918. M. S., **M**, XLVI, 29=Kyaukphyu.
- Kyaukse, *Burma* (93 C/2; 21° 36' : 96° 8'), marble. T. H. H., **R**, XXXIX, 258; altered sedimentary rocks. H. H. H., **R**, XLII, 86; Burma earthquakes, 1912. J. C. B., **M**, XLII, 50, 120, 123; fissures, 115.
- Kyauksegan, *Shwebo* (84 N/9; 22° 56' : 95° 39'), laterite. E. H. P., **R**, LXIII, 29.
- Kyaukset, *Minbu* (84 L/12; 20° 1' 30" : 94° 35'), coal seams. K. H., **R**, LI, 43.
- Kyaukshat, *Tavoy* (95 J/2; 14° 35' 30" : 98° 9'), quartzites, Mergui series. J. C. B., **M**, XLIV, 183.
- Kyaukswe, *Pakokku* (84 K/4; 21° 8' 30" : 94° 13'), gas springs. E. H. P., **M**, XL, 140.
- Kyauktaga, *Pakokku* (84 K/7; 21° 27' : 94° 19'), nummulites. G. C., **R**, XLIV, 77.
- Kyauktan, *Hanthawaddy* (94 D/6; 16° 38' : 96° 20'), Burma earthquake, 1912. J. C. B., **M**, XLII, 72.
- Kyauktan, *Minbu* (84 L/16; 20° 9' : 94° 52'), *Rotalia* bed, Pegu series. E. H. P., **M**, XL, 156.

- Kyauktan, *Myingyan* (84 L/13; 20° 52' : 94° 59' 30"), Miocene fauna. E. H. P., **M**, XL, 126.
- Kyauktan, *Pegu* (94 D/6; 16° 38' : 96° 20'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 231.
- Kyauktat, Kyauktap, *S. Shan States* (93 D/13; 20° 51' : 96° 46'), silver-lead, pyrites and copper-ore. E. J. J., **R**, XX, 191, 194; J. C. B., **R**, LVI, 91; Orthoceras beds. L. L. F., **R**, LXV, 89.
- Kyauktaw, *Akyab* (84 D/13; 20° 50' : 92° 59'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 29.
- Kyauktin, *Mandalay* (93 B/8; 22° 2' 30" : 96° 22'), Chaung-Magyi fault. T. D. L., **M**, XXXIX, pt. 2, 358.
- Kyaukton, *Taroy* (95 J/12; 14° 6' : 98° 44' 30"), lignite and fossil wood. J. C. B., **M**, XLIV, 195.
- Kyaukwet, *Pakokku* (84 K/10; 21° 40' : 94° 40' 30"), silicified wood in Pegu series. E. H. P., **M**, XL, 25; oil seepages, 139; lignite, 233.
- Kyaukye, *Myingyan* (84 L/14; 20° 35' : 94° 49'), fossil wood. E. H. P., **M**, XL, 54.
- Kyaunggon, *L. Chindwin* (84 O/1; 21° 58' : 95° 5' 30"), pegmatite dyke. E. H. P., **R**, LX, 88.
- Kyaunggon, *Meiktila* (84 O/16; 21° 3' : 95° 52'), dam-site. E. H. P., **R**, LX, 28.
- Kyaungmyaung, *Shwebo* (84 N/14; 22° 35' 30" : 95° 57'), pottery clay. L. L. F., **R**, LXV, 62.
- Kyaungon, *Thayetmyo* (85 M/7; 19° 30' : 95° 20' 30"), Tertiary gastropoda. E. V., **R**, LI, 307, 340; LJII, 84, 130; LV, 61, 70; *Placuna promensis*, 114.
- Kyaw, *Pakokku* (84 K/5; 21° 55' 30" : 94° 22'), syncline in Yaw shales. E. H. P., **R**, LVI, 41.
- Kyawdo, *Thayetmyo* (85 I/14; 19° 45' : 94° 57'), Pegu anticline. H. H. H., **R**, XLII, 78; XLVII, 32.
- Kyawzaw, *Insein* (94 C/3; 17° 21' : 96° 11'), dam-site. E. H. P., **R**, LXII, 38; Irrawadian sand-rock, 116.
- Kyeantalee, *Sandoway* (85 J/8; 18° 0' 30" : 94° 29' 30"), nummulitic limestone. W. T., **M**, X, 292, 308, 314=Kyeinteli.
- Kycik Myraw, *Amherst* (94 H/11; 16° 22' : 97° 44') iron slags. W. R. Criper, **R**, XVIII, 153—Kyaikmaraw.
- Kyeindaw, *S. Shan States* (93 D/9; 20° 58' : 96° 44'), lead-ore. J. C. B., **R**, LXV, 400.
- Kyeinteli, *Sandoway* (85 J/8; 18° 0' 30" : 94° 29' 30"), Pegu earthquake, 1930. J. C. B., **R**, LXV, 240=Kyeantalee.
- Kyetmaok R., *Mandalay* (93 B/4; 22° 14' : 96° 14'), fault. T. D. L., **M**, XXXIX, pt. 2, 358.
- Kyetnapa, *Mandalay* (93 C/5; 21° 51' : 96° 15'), gorge of Myitnge R. T. D. L., **M**, XXXIX, pt. 2, 16=Kwetnepah.
- Kyet-u-bok, *Minbu* (85 I/9; 19° 59' : 94° 37'), Eocene fossils. G. C., **R**, XLI, 226; E. H. P., **R**, LVI, 39; oil seepage. G. C., **R**, XLI, 230; E. H. P., **M**, XL, 168.

- Kyi Chhu, *Tibet* (77 O/N. W.; 29° 30' : 91° 0'), granite. H. H. H., **R**, XXXII, 168; petrology. **M**, XXXVI, 180.
- Kyibin, *Henzada* (85 O/2; 17° 44' : 95° 1'), carbonaceous shale. M. S., **R**, XLI, 252, 259, 264.
- Kyibingan, *Minbu* (84 L/16; 20° 12' : 94° 49' 30"), Plateau Red Earth. E. H. P., **M**, XL, 157.
- Kyidankanzwe, *Kyaukse* (93 C/8; 21° 11' 30" : 96° 19'), wolfram. J. C. B., **R**, LIV, 237.
- Kyigan, *Shwebo* (84 N/10; 22° 42' : 95° 39' 30"), mud springs. L. L. F., **R**, LXV, 93.
- Kyimatang, *Tibet* (72 M/5; 27° 51' : 87° 25'), mica-schist. A. M. H., **R**, LIV, 221.
- Kyimi, *Thayetmyo* (85 I/10; 19° 33' : 94° 39'), nummulites. G. C., **R**, XLI, 322.
- Kyin, *Pakokku* (84 K/6; 21° 37' : 94° 16' 30"), oil seepage. E. H. P., **M**, XL, 140.
- Kyinganaing, *Mandalay* (93 C/5; 21° 55' 30" : 96° 23'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 141, 168 = Thingunaing.
- Kyishong, *Tibet* (71 P/6; 28° 36' : 87° 18' 30"), Cretaceous syncline. A. M. H., **R**, LIV, 228.
- Kymori, *Jubbulpore* (55 M/11; 23° 23' : 79° 45'), mammalian bones in Narbada alluvium. W. T., **M**, II, 289.
- Kynshiang R., *Khasi Hills* (78 O/3; 25° 15' 30" : 91° 11'), Sylhet trap, relations with gneiss. R. W. P., **R**, LV, 157 = Umblai R.
- Kyobin, *U. Chindwin* (83 P/5; 24° 50' : 95° 17' 30"), alluvial gold. H. S. D., **R**, XLIII, 249, 256 (Pls. xxiv, fig. 1 & xxv).
- Kyochin, *L. Chindwin* (84 J/11; 22° 20' 30" : 94° 36'), coal seam. E. H. P., **R**, LXI, 28.
- Kyong, *S. Shan States* (93 D/9; 20° 47' 30" : 96° 39' 30"), Plateau Limestone. E. H. P., **R**, LXIII, 88.
- Kyoung Choung (Mawhte), *Toungoo* (94 G/2; 17° 36' : 97° 0'), hot spring. T. O. **M**, XIX, 151.
- Kypaw (Kaipa), *Banganapalle* (57 I/7; 15° 19' : 78° 16' 30"), thinning out of Paniam beds. W. K., **M**, VIII, 56, 64.
- Kyudawon, *Thayetmyo* (85 M/6; 19° 31' : 95° 25'), gastropoda, Pegu series. E. V., **R**, LIII, 84, 130; **M**, L, 302.
- Kyum Hka, *Myitkyina* (92 C/6; 25° 41' : 96° 23'), brine springs, sulphurous. E. H. P., **R**, LXIII, 50, 54 = Namjan Hka.
- Kyundaw I., *Magwe* (85 M/1; 19° 52' : 95° 8'), oil seepage. E. H. P., **M**, XL, 169.
- Kyunwun, *Mandalay* (93 C/1; 21° 54' : 96° 14'), shelly limestone, Carboniferous. T. D. L., **M**, XXXIX, pt. 2, 331.
- Kywaising, *Henzada* (85 O/1; 17° 58' 30" : 95° 6'), coal seam. R. R., **R**, XV, 179 (Pl. xii); R. R. S., **M**, XLI, 64 = Kywezin.
- Kywetho Myaung, *Minbu* (84 L/16; 20° 8' : 94° 54'), Pegu-Irrawadian unconformity. E. H. P., **M**, XL, 157.

- Kywe-u, *Minbu* (84 L/5; 20° 45' 30" : 94° 19'), Tertiary gastropoda. E. V., R, LIV, 244.
- Kywezin, *Henzada* (85 O/1; 17° 58' 30" : 95° 6'), coal seam. M. S., R, XLI; 255; E. H. P., M, XL, 232 = Kywaising.
- Labed, *Bilaspur* (64 J/16; 22° 9' 30" : 82° 49'), Vindhyan-gneiss boundary. W. K., R, XVIII, 180.
- Labji, *Korea* (64 I/7; 23° 21' : 82° 28' 30"), coal seams. T. W. H. H., M, XXI, 243.
- Labji, *Surguja* (64 N/1; 22° 52' : 83° 8'), bauxite. C. S. F., M, XLIX, 152.
- Laboda, *Ranchi* (73 F/13; 22° 57' : 85° 47' 30"), 'relic' ophitic structure in epidiorite. J. A. D., M, LIV, 77 (Pl. xiv, fig. 2).
- Labutta, *Myaungmya* (85 P/3; 16° 18' : 95° 9'), Pegu earthquake, 1930. J. C. B., R, LXV, 240.
- Lachalung La, *Ladakh* (52 G/12; 33° 6' : 77° 38'), Jurassic fossils. R. L., M, XXII, 174 = Lachi-Long La.
- Lachee, *Kohat* (38 O/7; 33° 23' : 71° 20'), junction of nummulitic limestone and sandstone. A. B. W., M, XI, 183 (Pl. i, fig. 3); salt quarries. W. W., M, XI, 316.
- Lachen, *Sikkim* (78 A/10; 27° 44' : 88° 33'), graphite. T. H. H., R, XXXIX, 98.
- Lachhmanpatan, *Punch* (43 G/10; 33° 43' : 73° 36'), Mang stage, syncline. D. N. W., M, LI, 275; fossils, 326.
- Lachikhun Mt., *Hazara* (43 F/7; 34° 28' : 73° 25'), Murree beds (?). A. B. W., R, XII, 126.
- Lachi-Long La, *Ladakh* (52 G/12; 33° 6' : 77° 38'), Triassic limestone and dolomite. R. L., R, XIII, 50; Jurassic fossils, 51 (note); XIV, 33 = Lachalung La.
- Lachipura, *Afghanistan* (38 J/11; 34° 21' : 70° 43'), quartz- and sericite-schist. H. H. H., M, XXXIX, 41.
- Lachkua, *Saharanpur* (53 J/4; 30° 4' 30" : 78° 2'), geodetic station. R. D. O., M, XLII, 237.
- Lachman Jharia, *Korea* (64 I/8; 23° 13' 30" : 82° 25'), sandstone dyke in coal. L. L. F., M, XLI, 174.
- Lachmanigura, *Jeyapore* (65 N/1; 18° 55' : 83° 3'), laterite. C. S. F., M, XLIX, 185.
- Lachung, *Sikkim* (78 A/10; 27° 42' : 88° 44' 30"), biotite-gneiss. P. N. B., R, XXIV, 221; hot springs. H. H. H., M, XXXVI, 136.
- Lada, *Alwar* (54 A/12; 27° 6' : 76° 38'), granite. A. M. H., M, XLV, 20.
- Ladda, *Jammu* (43 O/4; 33° 1' 30" : 75° 11'), coalfield. R. R. S., M, XXXII, 194 (Pls. i-vi); XLI, 101.
- Ladera (Lidhora), *Gwalior* (54 J/8; 26° 2' 30" : 78° 20'), pre-Vindhyan erosion of Gwaliors. C. A. H., R, III, 40; Vindhyan outlier. F.R.M., M, VII, 59.
- Ladha, *Waziristan* (38 H/14; 32° 34' : 69° 50'), Janjal plant beds. M. S., R, LIV, 97.
- Ladhal Bari, *Punch* (43 G/14; 33° 42' : 73° 46' 30"), M. Siwalik syncline. D. N. W., M, LI, 329.

- Ladiot, *Rawalpindi* (43 G/6;  $33^{\circ} 35' : 73^{\circ} 16'$ ), Siwalik syncline. D. N. W., **M**, LI, 341, 346.
- Ladis, *Persia* (30 H/5;  $28^{\circ} 56' : 61^{\circ} 19'$ ), Tertiary slates. E. V., **M**, XXXI, 268.
- Ladva, *Attock* (43 C/16;  $33^{\circ} 11' : 72^{\circ} 55' 30''$ ), U. Siwalik fossils. D. N. W., **M**, LI, 286, 344.
- Lagat, *Bharno* (92 D/16;  $24^{\circ} 4' 30'' : 96^{\circ} 56'$ ), coal seams. R. D. O., **R**, XXX, 6; R. R. S., **M**, XLI, 74.
- Lagetar, *Punch* (43 G/10;  $33^{\circ} 41' : 73^{\circ} 37' 30''$ ), L. Siwalik anticline. D. N. W., **M**, LI, 326.
- Laghardarra, *Miranzai* (38 O/2;  $33^{\circ} 38' 30'' : 71^{\circ} 3'$ ), Jurassic beds (?). C. L. G., **R**, XXV, 81.
- Lagnu, *Sirmur* (53 F/6;  $30^{\circ} 41' : 77^{\circ} 24'$ ), Blaini beds. G. E. P., **M**, LIII, 32.
- Lagori, *Punch* (43 G/10;  $33^{\circ} 40' 30'' : 73^{\circ} 38' 30''$ ), L. Siwalik anticline. D. N. W., **M**, LI, 274.
- Lagunbyin chaung, *Pegu* (94 C/7;  $17^{\circ} 18' : 96^{\circ} 18'$ ), Irrawadian beds. E. H. P., **R**, LXII, 117.
- Lagwi pass, *Myitkyina* (92 K/9;  $25^{\circ} 49' : 98^{\circ} 31'$ ), lead mines. M. S., **R**, LIV, 407, 408.
- Lahani (Lohun) R., *Kashmir* (43 N/2;  $34^{\circ} 31' : 75^{\circ} 4'$ ), Carbo-Triassic beds. R. L., **R**, XII, 21.
- Lahej, *Aden* (7 C/16;  $13^{\circ} 4' : 44^{\circ} 53'$ ), water-supply. F. R. M., **M**, VII, 278.
- Lahgarua (Ledgadua), *Chhindwara* (55 K/13;  $21^{\circ} 54' : 78^{\circ} 54' 30''$ ), Deccan trap flow, L. L. F., **R**, XLVII, 93.
- Lahore, *Punjab* (44 I/6;  $31^{\circ} 35' : 74^{\circ} 19'$ ), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 131 (figs. & Pls. xviii, xix, xxiii, xxiv).
- La-hsa, *Yunnan* (92 H/15;  $24^{\circ} 25' 30'' : 97^{\circ} 43' 30''$ ), lacustrine deposits. J. C. B., **R**, XLIII, 202.
- Lai, *Korea* (64 I/7;  $23^{\circ} 18' : 82^{\circ} 19'$ ), coal seam. T. W. H. H., **M**, XXI, 243.
- Laidom, *Khasi Hills* (78 O/10;  $25^{\circ} 36' : 91^{\circ} 39'$ ), granite intrusion. T. O., **M**, I, 155, 166.
- Laija (Loiza), *Rairakhol* (73 C/8;  $21^{\circ} 10' : 84^{\circ} 24'$ ), Talohir boulder bed. W. T. B., **M**, I, 48.
- Laikdih, *Mandhum* (73 I/14;  $23^{\circ} 44' : 86^{\circ} 48'$ ), coal seam. R. R. S., **M**, XLI, 45, 47.
- Laikha, *S. Shan States* (93 G/11;  $21^{\circ} 16' 30'' : 97^{\circ} 40'$ ), lignite, analysis. G. S. L., **R**, XXVII, 67.
- Lainyan, *Karachi* (40 C/2;  $25^{\circ} 40' : 68^{\circ} 9'$ ), Ranikot beds, coal seam. W. T. B., **M**, XVII, 142, 192; R. R. S., **M**, XLI, 60 = Leilan and Lynyan.
- Lairangao (Laitryngew), *Khasi Hills* (78 O/11;  $25^{\circ} 19' 30'' : 91^{\circ} 44'$ ), coalfield. T. O., **M**, I, 143; H. B. M., **M**, VII, 163; T. D. L., **R**, XXIII, 120 (Pl. xvii), R. R. S., **M**, XLI, 27.
- Laisoplang, *Khasi Hills* (78 O/12;  $25^{\circ} 13' : 91^{\circ} 44'$ ), Cretaceous fossils. H. B. M., **M**, VII, 181.
- Laitkseh, *Khasi Hills* (78 O/7;  $25^{\circ} 29' 30'' : 91^{\circ} 25'$ ), white clay with plant stems, Cretaceous. R. W. P., **R**, LV, 161.



- Laitlynkot, *Khasi Hills* (78 O/15; 25° 27' : 91° 50'), earthquake, 1897, overthrow of objects. R. D. O., **M**, XXIX, 116 (Pl. xii); aftershocks. **XXX**, 50-64.
- Laitsohum, *Khasi Hills* (78 O/11; 25° 16' 30" : 91° 34'), glauconitic beds, Cretaceous. R. W. P., **R**, LV, 161.
- Lajia, *Singbhum* (73 F/10; 22° 31' 30" : 85° 42'), manganiferous iron-ore. V. B., **M**, XVIII, 147; L. L. F., **M**, XXXVII, 630.
- Lakadong, *Jaintia Hills* (83 C/8; 25° 11' : 92° 16'), coalfield. T. O., **M**, I, 131, 138, 145 (figs. & Pl. ix); T. D. L., **R**, XVI, 200; XXIII, 14 (Pl. i); R. R. S., **M**, XLI, 30.
- Lakangaon, *Indore* (46 O/1; 21° 46' : 75° 13' 30"), meteorite. G. C., **R**, XLII, 275 (Pl. xlii, fig. 2); J. C. B., **M**, XLIII, 225.
- Lakanpur, *Sambalpur* (64 O/13; 21° 46' : 83° 46' 30"), coal, analysis. V. B., **R**, VIII, 120.
- Lake Arthur Hill, *Ahmadnagar* (47 E/10; 19° 31' : 73° 45'), dam-site. H. H. H., **R**, L, 13.
- Lakha Pir, *Kalat* (34 P/8; 28° 1' : 67° 26'), hot spring, sulphurous. W. T. B., **M**, XVII, 75; T. O., **M**, XIX, 114.
- Lakhanpur, *Jaipur* (54 F/1; 26° 58' 30" : 77° 11'), Damdama stage, quartzites and conglomerates. A. M. H., **R**, XLVIII, 192.
- Lakhanpur, *Surguja* (64 N/1; 22° 59' : 83° 3'), coalfield. V. B., **R**, XV, 108; R. R. S., **M**, XLI, 81.
- Lakhanwara, *Chhindwara* (55 K/13; 21° 46' : 78° 50' 30"), manganose-ore. L. L. F., **M**, XXXVII, 780; **R**, XXXIII, 211.
- Lakhaora, *Rewah* (63 H/15; 24° 28' : 81° 50'), Kheinjua limestone. P. N. D., **M**, XXXI, 151.
- Lakhe-ka-kot, *Sibi* (39 G/4; 29° 3' : 69° 3'), *Nummulites*. W. L. F. N., **R**, LIX, 132, 138.
- Lakheri, *Bundi* (54 C/2; 25° 40' 30" : 76° 10' 30"), limestones, Bhander stage. A. L. C., **R**, LX, 174, 182; cement works, 192.
- Lakhi, *Karachi* (35 N/15; 26° 15' 30" : 67° 54'), hot spring, sulphurous. T. O., **M**, XIX, 112 = Laki.
- Lakhimpur, *Assam* (83 I/4; 27° 14' : 94° 6'), Cachar earthquake, 1869. T. O., **M**, XIX, 28; earthquake, 1897, fissures. R. D. O., **M**, XXIX, 110, 340; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 268; rainfall. E. H. P., **M**, XL, 274.
- Lakhipur, *Goalpara* (78 J/8; 26° 2' : 90° 18' 30"), earthquake, 1897, aftershocks. R. D. O., **M**, XXIX, 127.
- Lakhmirani, *Cutch* (41 A/10; 23° 34' : 68° 35' 30"), *Nummulites*. W. L. F. N., **R**, LIX, 141; *Discocyclus*, 147-150; *Actinocyclus*, 151.
- Lakhnadon, *Seoni* (55 N/10; 22° 36' : 79° 36'), boring site for coal. H. H. H., **R**, XLIV, 36.
- Lakhoti, *Simla* (53 F/5; 30° 56' : 77° 15' 30"), Blaini beds. G. E. P., **M**, LIII, 23; Jaunsar series, 84.
- Lakhpur, *Cutch* (41 A/13; 23° 49' 30" : 68° 47'), *Nummulites douvillei*. E. V., **R**, XXXIV, 85; flooded area, earthquake, 1819. R. D. O., **M**, XLVI, 94, 103 = Lukput.

- Lakhsakh pass, *Kashgar* (42 O/2; 37° 41' : 75° 5'), Triassic fossils. H. H. H., R, XLV, 306.
- Lakhu, *Naga Hills* (83 J/6; 26° 34' : 94° 26' 30"), thrust-plane. H. H. H., R, XL, 292.
- Laki, *Karachi* (35 N/15; 26° 15' 30" : 67° 54'), hot spring, sulphurous. W. T. B., M, XVII, 126 (Pl. iii, fig. 3); *Nummulites*. W. L. F. N., R, LIX, 137; *Discocyclina*, 150 = Lakhi.
- Lakich, *Athmalik* (73 D/9; 20° 58' : 84° 36' 30"), iron-ore. L. L. F., R, LIII, 273.
- Lakki-valli, *Kadur* (48 O/10; 13° 42' : 75° 39'), Dharwar band. R. B. F., R, XXI, 44.
- Lakkona (Banda Lakoni), *Kohat* (38 O/8; 33° 12' : 71° 17' 30"), Gypseous series and sulphur springs, section. A. B. W., M, XI, 279 (Pl. ix, fig. 50); M. S., R, L, 65.
- Lakma, *Khasi Hills* (78 O/4; 25° 11' 30" : 91° 9'), coal seam. T. D. L., R, XVII, 145; R. R. S., M, XLI, 28.
- Lakshmipuram, *Vizagapatam* (65 N/11; 18° 16' : 83° 36'), manganese-ore. L. L. F., M, XXXVII, 435, 463, 1048.
- Lalak, *Afghanistan* (34 E/5; 31° 48' : 65° 17'), trap dykes. C. L. G., M, XVIII, 55.
- Lalapur hill, *Gulbarga* (86 H/1; 16° 58' : 77° 3'), landslip. R. B. F., M, XII, 153.
- Lalaung, *Hukawng* (92 B/12; 26° 13' : 96° 35'), amber mines. F. N., R, XXV, 131; XXVI, 34; M. S., R, LIV, 404.
- Lalbazar, *Birbhum* (72 P/12; 24° 1' 30" : 87° 39' 30"), iron-ore, assays. V. B., M, XIII, 248.
- Lalbazar, *Burdwan* (73 I/14; 23° 45' : 86° 51'), Barakar stage, section. W. T. B., M, III, 54, 58.
- Laldhang, *Garhwal* (53 K/5; 29° 51' : 78° 19'), fault. W. T., R, XIV, 95.
- Lalgarh, *Jaipur* (54 B/1; 26° 47' : 76° 6'), volcanic rocks, Aravalli. A. M. H., R, LIV, 358; basal conglomerates, Alwar series, 359 (Pl. xxii).
- Lalgoody, *Trichinopoly* (58 J/13; 10° 52' : 78° 49'), lixiviation of salt efflorescence. H. F. B., M, IV, 215 (fig.).
- Lalgurh, *Hazaribagh* (73 E/9; 23° 48' : 85° 41'), coal seam, section. T. W. H. H., M, VI, 69.
- Lalitpur, *Jhansi* (54 L/6; 24° 41' : 78° 25'), meteorite. F. R. M., R, XX, 153; J. C. B., M, XLIII, 226; earthquake, 1897. R. D. O., M, XXIX, 51.
- Lelo Gulee, *Hazara* (43 B/15; 34° 10' : 72° 50'), epidiorite, petrology. C. S. M., M, XXVI, 79; alluvial gold, 251.
- Laloda, *Idar* (46 E/1; 23° 49' 30" : 73° 1'), basic xenolith in Idar granite. C. S. M., M, XLIV, 124 (Pl. xiv, fig. 2).
- Lalpur, *Jubbulpore* (55 M/16; 23° 7' : 79° 47'), steatite. T. H. H., R, XXXIX, 274.
- Lalpura, *Afghanistan* (38 N/4; 34° 14' : 71° 2' 30"), gorges, Kabul river. H. H. H., M, XXXIX, 40.
- Lalpura, *Mandla* (64 B/15; 22° 20' 30" : 80° 57' 30"), lateritic iron-ore. P. N. B., A. R., 1898, 43.

- Lalsir, *Jaipur* (54 B/10; 26° 44' 30" : 76° 36'), Aravalli schists. A. M. H., R, XLVIII, 185.
- Lalsot, *Jaipur* (54 B/6; 26° 34' : 76° 19'), copper-ore. C. A. H., R, X, 91; XIII, 247; A. M. H., R, XLVIII, 199.
- Lam, *Kashmir* (43 N/4; 34° 1' 30" : 75° 6'), Permo-Carboniferous beds. C. S. M., R, XL, 240; Trias, 243, 253.
- Lama, *Myitkyina* (92 C/6; 25° 42' : 96° 21'), iron-ore. E. H. P., R, LXIII, 36; schists, 99.
- Lama, *Rewah* (64 E/15; 23° 17' : 81° 58' 30'), coal seam. T. W. H. H., M, XXI, 243.
- Lamayuru, *Ladakh* (52 B/15; 34° 17' : 76° 47'), Kuling and Panjal beds. R. L., R, XIII, 46; M, XXII, 165, 252.
- Lamba, *Palamau* (72 D/4; 24° 12' : 84° 13'), magnetite. L. L. F., R, LXV, 51.
- Lambatach, *Tehri* (53 E/16; 31° 0' 30" : 77° 54'), arkose beds. R. D. O., R, XX, 160; XXI, 136.
- Lambi-dand (Lammidhan), *Attock* (43 C/2; 33° 38' : 72° 12'), Nummulitic series, section. W. T., R, XIV, 79.
- Lambigarh, *Rawalpindi* (43 C/14; 33° 31' : 72° 55'), Upper Nummulitic beds. E. H. P., M, XL, 400.
- Lambi-Lohi, *Jhelum* (43 H/6; 32° 43' 30" : 73° 18'), Nummulitic series. E. H. P., R, LXIII, 133.
- La-meng, *Yunnan* (92 L/14; 24° 44' : 98° 55'), Ordovician fossils. J. C. B., R, XLIII, 330; XLVII, 224, 252.
- Lameta Ghat, *Jubbulpore* (55 M/16; 23° 6' : 79° 50'), coal seam. J. G. M., M, II, 110, 270; section. F. R. M., R, XXII, 146; R. R. S., M, XLI, 87; Lameta beds, section. C. A. Matley, R, LIII, 165 (figs.).
- Lamin, *Jaintia Hills* (83 C/4; 25° 13' : 92° 2'), Cretaceous fossils. P. N. B., A. R., 1902, 27.
- Lamong, *Myitkyina* (92 C/6; 25° 38' : 96° 15' 30'), iron-ore. E. H. P., R, LXII, 54.
- Lamta, *Balaghat* (64 B/4; 22° 8' : 80° 8'), ornamental stone. L. L. F., R, L, 277.
- Lamteng, *Sikkim* (78 A/10; 27° 44' : 88° 35'), marble. H. H. H., R, XXXII, 161.
- Lana, *Sirmur* (53 F/9; 30° 49' : 77° 39'), glacial boulder bed. R. D. O., R, XX, 157.
- Lan-ching, *Yunnan* (101 G/11; 25° 20' 30" : 101° 40'), brine wells. J. C. B., R, LIV, 71, 85; M, XLVII, 159.
- Landai, *D. I. Khan* (39 I/2; 31° 36' : 70° 8'), vertebrate fossils. T. D. L., R, XXVI, 90.
- Landi Khana, *Khyber* (38 N/4; 34° 7' : 71° 6'), water-supply. E. H. P., R, LVI, 35; LIX, 64.
- Landi Kotal, *Khyber* (38 N/4; 34° 6' : 71° 8'), limestone and slates. H. H. H., M, XXXIX, 41.
- Landimal, *Rairakhol* (73 C/12; 21° 8' : 84° 32'), unconformity. Mahadeva-Talchir series. V. B., R, X, 171.
- Landomodo (Lyngdohmawdoh), *Khasi Hills* (78 O/6; 25° 40' : 91° 25'), earthquake, 1897, lakelet. R. D. O., M, XXIX, 156.

- Landu, Landup (Nandup), *Singbhum* (73 J/2; 22° 43' 30" : 86° 11' 30"), copper-ore. E. S., R, III, 90, 91; borings. T. H. H., R, XXXVII, 30; gold and platinum. V. B., M, XVIII, 142; F. R. M., R, XV, 55.
- Lang Razi, *Putao* (92 E/10; 27° 43' : 97° 32'), hornblende-andesite and diorite. M. S., R, L, 248; galena, 251.
- Langera (Langaira), *Chamba* (43 P/13; 32° 52' : 75° 52'), Blaini conglomerate. C. A. M., R, XVI, 37; R. L., M, XXII, 240, 280.
- Langhit R., *Sibsagar* (83 F/8; 26° 2' : 93° 24'), nummulitic limestone. F. H. S., M, XXVIII, 82.
- Langja, *Spiti* (52 L/3; 32° 16' 30" : 78° 4'), Spiti shales. H. H. H., M, XXXVI, 85.
- Langla, *Sylhet* (78 P/15; 24° 28' 30" : 91° 58'), Srimangal earthquake, 1918. M. S., M, XLVI, 22.
- Langpa, *Khasi Hills* (78 O/3; 25° 16' 30" : 91° 13'), copper-ore. L. L. F., R, LIV, 21.
- Langrin, *Khasi Hills* (78 O/3; 25° 15' : 91° 10'), coalfield. T. D. L., R, XVII, 143 (Pl. ix); R. R. S., M, XLI, 28.
- Langyang, *Myitkyina* (92 K/5; 25° 57' : 98° 18'), crystalline limestone. M. S., R, LIV, 406.
- Lanjabanda, *Kurnool* (57 E/15; 15° 29' 30" : 77° 59' 30"), hot springs. T. O., M, XIX, 146.
- Lanjarse, *Spiti* (52 L/8; 32° 4' : 78° 21'), Fenestella shales. H. H. H., M, XXXVI, 49-51.
- Lanji, *Singbhum* (73 F/9; 22° 48' 30" : 85° 34' 30"), manganiferous laterite. J. A. D., M, LIV, 143, 165.
- Lanka, *Nowgong* (83 C/13; 25° 55' : 92° 58'), rainfall. E. H. P., M, XL, 274.
- Lankalagada, *Karimnagar* (65 B/2; 18° 40' 30" : 80° 7'), Kota limestone. W. K., R, XIII, 19.
- Lankhyen, *Tavoy* (95 J/8; 14° 9' : 98° 20'), hot spring, sulphurous. T. O., M, XIX, 153.
- Lankpya Lek, *Almora* (62 B/11; 30° 29' : 80° 36'), Carboniferous beds, section. C. L. G., M, XXIII, 180 (Pl. viii, fig. 2).
- Lanyalab, *Kashmir* (43 K/9; 33° 52' 30" : 74° 37'), lignitic coalfield. C. S. M., R, LV, 246.
- Lanywa, *Pakokku* (84 L/13; 20° 58' : 94° 49' 30"), vertebrates, Irrawadian series. G. E. G., M, XXVIII, 46; borings for oil. E. H. P., M, XL, 116.
- Lao-ka-ya, *N. Shan States* (93 E/8; 23° 10' : 97° 18'), Pangyun beds. H. H. H., R, XLVII, 33.
- Lao-kuei-po, *Yunnan* (92 K/8; 25° 3' : 98° 28'), volcano. J. C. B., R, XLIII, 190.
- Laorai (Lawarai) pass, *Chitral* (38 M/15; 35° 21' : 71° 48'), granite. H. H. H., R, XLV, 277.
- Lao-t'ang, *Yunnan* (101 D/2; 24° 32' : 100° 0' 30"), quartz- and mica-schists. J. C. B., R, LIV, 297.
- Laphet, *Jaintia Hills* (83 C/7; 25° 24' : 92° 28'), coal seam. E. H. P., R, LVIII, 24.
- Lapsa Buru, *Kharawan* (73 F/9; 22° 48' : 85° 44'), kyanite-rock. J. A. D., M, LII, 215, 247 (Pl. xxvi); LIV, 54, 151, 166 (Pl. xi, fig. 2) = Lopsa hill.

- Laptal, Laptel, Laphthal, *Almora* (62 B/2; 30° 44' : 80° 9'), Spiti shales, fossils. T. W. H. H., *R*, XI, 185; C. L. G., *M*, XXIII, 155; Cretaceous flysch. A. K., A. R., 1901, 27.
- Lapti, *Balaghat* (64 B/16; 22° 10' : 80° 46'), bauxite. C. S. F., *M*, XLIX, 140.
- Lapurba, *Ladakh* (52 G/6; 33° 39' : 77° 21'), Rhætic fossils. F. S., *M*, V, 345.
- Larak I., *Persian Gulf* (25 B/5; 26° 51' : 56° 22'), Hormuz series. G. E. P., *M*, XXXIV, pt. 4, 141.
- Larelar, *Waziristan* (38 H/11; 32° 29' : 69° 44'), glacial boulders (?). M. S., *R*, LIV, 97.
- Larji, Larji, *Kulu* (53 E/2; 31° 43' : 77° 13'), Krol beds. H. B. M., *M*, III, pt. 2, 57; Kangra earthquake, 1905. C. S. M., *M*, XXXVIII, 67.
- Lari, *Spiti* (52 L/8; 32° 4' : 78° 26'), pyritous slates. F. R. M., *M*, V, 155; trap dykes, Po series. H. H. H., *M*, XXXVI, 45 (Pl. iii, fig. 3); actinolite-schist, 99.
- Larot, *Tehri* (53 E/16; 31° 14' : 77° 56' 30'), 'central gneiss'. C. A. M., *R*, X, 220.
- Las, *Sirohi* (45 C/16; 25° 7' 30" : 72° 49'), Malani rhyolite. E. H. P., *R*, LX, 113.
- Lashio, *N. Shan States* (93 F/9; 22° 56' : 97° 44' 30"), coalfield. F. N., *R*, XXIV, 112; T. D. L., A. R., 1902, 17; *R*, XXXIII, 117 (Pls. x, xi); *M*, XXXIX, pt. 2, 310; R. R. S., *M*, XLI, 70; analyses of coal. G. S. L., *R*, XXXI, 52; hot spring. F. N., *R*, XXIV, 111; T. D. L., *M*, XXXIX, pt. 2, 345, 363; Burma earthquakes, 1912. J. C. B., *M*, XLII, 37, 118.
- Lasht, *Chitral* (42 H/1; 36° 46' : 73° 2'), U. Devonian beds. H. H. H., *R*, XLV, 290.
- Lasundra, *Kaira* (46 F/1; 22° 55' : 73° 9'), hot springs, sulphurous. T. H. H., *R*, XXXIX, 265 = Lausundra.
- Lataband pass, *Afghanistan* (38 F/10; 34° 30' : 69° 34'), Mesozoic beds. C. L. G., *R*, XX, 23; XXV, 70; H. H. H., *M*, XXXIX, 22, 45; carbonaceous beds, ? Siwalik, 39.
- Latakai, *Ranchi* (73 F/2; 22° 38' 30" : 85° 2' 30"), amphibole-schist. J. A. D., *M*, LIV, 94.
- Lataria, *Bundi* (45 O/11; 25° 17' : 75° 31'), U. Vindhyan, section. A. L. C., *R*, LX, 178 (fig.).
- Latauh, *Ranchi* (73 F/1; 22° 53' : 85° 10' 30"), injections of granite. L. A. N., *R*, LXV, 494; hybrid rock, 506 (Pl. xxvii, fig. 4); analysis, 509.
- Latchman Jhula, *Garhwal* (53 J/8; 30° 7' 30" : 78° 20'), pre-Mandhali limestone. R. D. O., *R*, XVII, 161.
- Latchmipuram, *Kistna* (65 G/12; 17° 0' 30" : 81° 35'), iron smelting. W. K., *M*, XVI, 256.
- Lathi, *Jaisalmer* (40 M/12; 27° 1' 30" : 71° 31'), fossil-wood sandstones, ? Jurassic. W. T. B., *R*, X, 14; R. D. O., *R*, XIX, 125, 158.
- Latho, *Ladakh* (52 G/10; 33° 41' : 77° 44'), Tertiary conglomerates. R. L., *R*, XIII, 39.
- Latiahar, *Palamanu* (73 A/6; 23° 44' 30" : 84° 30'), Gondwana beds. T. W. H. H., *M*, VIII, 346; V. B., *M*, XV, 57, 78; Talchir plants. O. F., *R*, XIV, 251; Mahadeva plants, 259.

- Latideo hill, *Betul* (55 J/4; 22° 8' : 78° 3'), dyke in Talchir beds. J. G. M., **M**, II, 225.
- Latidun, *Persia* (18 M/16; 27° 10' : 55° 48'), Fars series, fossils and gypsum. G. E. P., **M**, XLVIII, pt. 2, 95.
- Latma, *Korea* (64 I/11; 23° 22' 30" : 82° 34' 30"), coal seam. T. W. H. H., **M**, XXI, 243.
- Lauali (Lewali), *Jaipur* (54 B/6; 26° 33' 30" : 76° 29'), basement beds, Delhi series. A. M. H., **R**, XLVIII, 195.
- Laubersat, *Khasi Hills* (78 O/2; 25° 39' : 91° 14' 30"), earthquake, 1897, landslips. R. D. O., **M**, XXIX, 117.
- Laughar, *Laugur, Balaghat* (64 C/5; 21° 56' : 80° 21'), bauxite. T. H. H., **R**, XXXII, 180; manganese-ore. H. H. H., **R**, XLVII, 21; L. L. F., **M**, XXXVII, 726.
- Lauka, *Almora* (62 B/2; 30° 36' : 80° 10'), Carnic stage, fossils. C. D., **M**, XXXVI, 293.
- Laukisra, *Singbhum* (73 J/6; 22° 32' 30" : 86° 27'), copper-ore, boring. T. H. H., **R**, XXXVIII, 38; XXXIX, 237; L. L. F., **R**, LIII, 263.
- Lau-lau-dah, *Santal Parganas* (72 P/11; 24° 19' 30" : 87° 39') hot spring. L. L. F., **R**, LIII, 291 = Sidpur.
- Laungbyit, *U. Chindwin* (84 J/13; 22° 54' : 94° 45'), Plateau gravels. E. H. P., **R**, LXIII, 104.
- Lauri, *Dehra Dun* (53 J/1; 30° 45' : 78° 2'), Jaunsar limestone and volcanic beds. R. D. O., **R**, XVI, 194.
- Lausah, *Chamba* (52 D/3; 32° 23' : 76° 2'), saline spring. T. O., **M**, XIX, 117.
- Lausundra, *Kaira* (46 F/1; 22° 55' : 73° 9'), hot springs. T. O., **M**, XIX, 133 = Lasundra.
- Lawadih, *Ranchi* (73 F/9; 22° 51' 30" : 85° 35'), tuffs, Iron Ore series. J. A. D., **M**, LIV, 49.
- Lawaghogri, *Chhindwara* (55 K/9; 21° 55' : 78° 39'), Archæan rocks. H. H. H., **R**, XLIV, 34.
- Lawari, *Bhandara* (64 C/4; 21° 3' : 80° 1'), tourmaline-garnet-granite. S. K. C., **R**, LXV, 294.
- Lawats, *Waziristan* (38 L/3; 32° 25' : 70° 2'), Cretaceous sandstone. M. S., **R**, LIV, 95.
- Lawwakodo, *Salween* (94 F/8; 18° 9' : 97° 18' 30"), Plateau Limestone. E. L. C., **R**, LX, 299.
- Layeo (Loiyo), *Hazaribagh* (73 E/9; 23° 47' : 85° 38'), Barakar plants. T. W. H. H., **M**, VI, 78.
- Laymyaung (Letmyaung), *Thayetmyo* (85 M/8; 19° 9' : 95° 15' 30"), brine spring. W. T., **R**, VI, 69.
- Lebed, *Ranchi* (73 F/9; 22° 56' 30" : 85° 31'), volcanic plug. J. A. D., **M**, LIV, 87.
- Lebingon, *Myingyan* (84 L/14; 20° 40' : 94° 50'), Yenangyaung antiline. E. H. P., **M**, XL, 66.
- Lebung pass, *Almora* (62 B/11; 30° 20' : 80° 38'), Carboniferous-Trias, section. C. L. G., **M**, XXIII, 187 (Pls. ix, fig. 1 & xviii-xx).
- Lebya, *Meiktila* (84 O/12; 21° 0' : 95° 31'), Pegu dome. E. H. P., **M**, XL, 138.

- Løbyaungbyan, *Mandalay* (93 B/8;  $22^{\circ} 2' : 96^{\circ} 24'$ ), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 77.
- Lebyin, *Yamethin* (93 D/6;  $20^{\circ} 40' : 96^{\circ} 26'$ ), antimony-ore. H. H. H., **R**, L, 9; H. C. J., **R**, LIII, 50 = Taunglebyin.
- Leda hill, *Singbbhum* (73 F/7;  $22^{\circ} 28' : 85^{\circ} 23'$ ), manganese-ore. L. L. F., **M**, XXXVII, 630.
- Ledaung, *Ramri I.* (85 E/16;  $19^{\circ} 4' : 93^{\circ} 45' 30''$ ), oil wells. E. H. P., **M**, XL, 192 = Letaung.
- Ledawchaung, *Katha* (92 D/3;  $24^{\circ} 26' : 96^{\circ} 7'$ ), gem sands. E. V., **R**, XXXI, 45.
- Ledet, *Mandalay* (93 B/8;  $22^{\circ} 3' : 96^{\circ} 26'$ ), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 88.
- Ledo, *Lakhimpur* (83 M/11;  $27^{\circ} 18' : 95^{\circ} 44'$ ), coal seam. R. R. S., **M**, XLI, 18; **R**, XXXIV, 239.
- Legaung, *Meiktila* (93 D/9;  $20^{\circ} 49' 30'' : 96^{\circ} 30'$ ), coal seams. E. J. J., **R**, XX, 188; R. R. S., **M**, XLI, 69; Triassic beds (?). C. S. F., **R**, LXIII, 184.
- Leggia (Legya), *S. Shan States* (93 D/10;  $20^{\circ} 33' : 96^{\circ} 41'$ ), Purple sandstones. C. S. M., **A. R.**, 1900, 145.
- Legyi, *Ruby Mines* (93 B/9;  $22^{\circ} 49' 30'' : 96^{\circ} 33'$ ), granite. T. D. L., **M**, XXXIX, pt. 2, 47.
- Legyi Chaung, *L. Chindwin* (84 J/10;  $22^{\circ} 37' : 94^{\circ} 38'$ ), oil seepage. E. H. P., **M**, XL, 145.
- Legyin, *Wuntho* (83 P/16;  $24^{\circ} 14' : 95^{\circ} 49'$ ), auriferous quartz reef. G. A. S., **A. R.**, 1900, 63; J. C. B., **R**, LVI, 85.
- Leh, *Ladakh* (52 F/12;  $34^{\circ} 10' : 77^{\circ} 35'$ ), Tertiary beds. R. L., **M**, XXII, 105, 120; 'central gneiss', 321; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 189.
- Lehindajjar (Lihindajan), *Kashmir* (43 O/1;  $33^{\circ} 55' : 75^{\circ} 14'$ ), Fenestella series. C. S. M., **R**, XL, 226 (Pl. xxxi, fig. 1).
- Lehri, *Jhelum* (43 G/12;  $33^{\circ} 9' : 73^{\circ} 33'$ ), Siwalik vertebrates. A. B. W., **R**, X, 120; **M**, XIV, 112; Siwalik anticline. L. L. F., **R**, LXV, 119.
- Lehri, *Rawalpindi* (43 G/10;  $33^{\circ} 32' : 73^{\circ} 33'$ ), U. Siwalik conglomerate. D. N. W., **M**, LI, 361.
- Lehti R., *Darjeeling* (78 B/9;  $26^{\circ} 56' : 88^{\circ} 39'$ ), Damuda beds, contact with Daling slates. F. R. M., **M**, XI, 28, 39.
- Lehtrar, *Rawalpindi* (43 G/6;  $33^{\circ} 42' 30'' : 73^{\circ} 27'$ ), Murree beds, anticline. D. N. W., **M**, LI, 347, 357.
- Leikmaw, *Ramri I.* (85 E/7;  $19^{\circ} 22' : 93^{\circ} 29'$ ), marine shells in boring. E. H. P., **M**, XL, 183; oil seepages, 192.
- Leiktho, *Toungoo* (94 A/12;  $19^{\circ} 5' : 96^{\circ} 36'$ ), porphyritic granite. C. S. M., **A. R.**, 1900, 129.
- Leilan, *Karachi* (40 C/2;  $25^{\circ} 40' : 68^{\circ} 9'$ ), U. Ranikot gastropoda. E. V., **R**, LIV, 257, 259, 261; LV, 56; section. W. L. F. N., **R**, LXV, 308 = Lainyan and Lynyan.
- Lejang, *Palamau* (73 A/9;  $23^{\circ} 48' : 84^{\circ} 39'$ ), Barakar stage, section. V. B., **M**, XV, 61.
- Lekka (Letkat) taung, *Amherst* (94 H/16;  $16^{\circ} 12' : 97^{\circ} 47'$ ), antimony-ore. W. R. Criper, **R**, XVIII, 152; J. C. B., **R**, LVI, 100.

- Lema, *Mandalay* (93 C/5;  $21^{\circ} 49' : 96^{\circ} 30'$ ), Plateau limestone. T. D. L., **M**, XXXIX, pt. 2, 185.
- Lema, *Thayetmyo* (35 M/8;  $19^{\circ} 13' : 95^{\circ} 26'$ ), mammalian bones. W. T., **M**, X, 255; F. N., **R**, XXVIII, 78.
- Lembhoi, *Idar* (46 A/13;  $23^{\circ} 52' : 72^{\circ} 59'$ ), quartz veins. C. S. M., **M**, XLIV, 130.
- Lemru, *Bilaspur* (64 J/14;  $22^{\circ} 38' 30'' : 82^{\circ} 50'$ ), pre-Talchir erosion of gneiss. W. K., **R**, XVIII, 193.
- Le-myet-hna, Lemyetha, *Henzada* (85 O/2;  $17^{\circ} 36' : 95^{\circ} 9'$ ), earthquake, 1897, time record. R. D. O., **M**, XXIX, 67; Pegu earthquake, 1930. J. C. B., **R**, LXV, 240.
- Lenkensmit (Lyngkienkasmit), *Jaintia Hills* (83 C/7;  $25^{\circ} 20' : 92^{\circ} 20'$ ), coal seam. P. N. B., **A. R.**, 1902, 18; R. R. S., **M**, XLI, 29.
- Lenkra, *Garo Hills* (78 K/10;  $25^{\circ} 31' : 90^{\circ} 42'$ ), earthquake, 1897, lakelet. R. D. O., **M**, XXIX, 154.
- Lenya R., *Mergui* (96 I/15;  $11^{\circ} 28' : 99^{\circ} 0'$ ), coal seam. R. R. S., **M**, XLI, 64.
- Leo, *Bashahr* (53 I/9;  $31^{\circ} 53' : 78^{\circ} 35'$ ), quartzites and mica-schists. C. A. M., **R**, XII, 60; granite, petrology. XVII, 54, 68 = Lio.
- Lepan-baw Choung, *Toungoo* (94 A/11;  $19^{\circ} 16' 30'' : 96^{\circ} 36'$ ), hot springs. W. T., **M**, X, 353; T. O., **M**, XIX, 150.
- Lepangaing (Thepanyaung), *Thayetmyo* (85 I/11;  $19^{\circ} 20' : 94^{\circ} 38' 30''$ ), limestone, Axial series. W. T., **R**, IV, 39.
- Lepi (Lipa), *Bashahr* (53 I/6;  $31^{\circ} 39' 30'' : 78^{\circ} 24'$ ), granite and mica-schists. C. A. M., **R**, XII, 57.
- Leptanzeik, *Thayetmyo* (85 M/3;  $19^{\circ} 24' : 95^{\circ} 12'$ ), Tertiary gastropoda. E. V., **R**, LI, 234, 340; LIII, 84; G. C., **R**, LIV, 111.
- Leshe, *L. Chindwin* (84 J/15;  $22^{\circ} 15' 30'' : 94^{\circ} 57'$ ), crater lake. R. D. O., **R**, XXXIV, 138 (fig. & Pl. xvi); E. H. P., **R**, LXI, 108.
- Lesliganj, *Palamau* (72 D/4;  $24^{\circ} 2' 30'' : 84^{\circ} 13'$ ), mica. L. L. F., **R**, LXV, 57, 76.
- Letaung, *Ramri I.* (85 E/16;  $19^{\circ} 4' : 93^{\circ} 45' 30''$ ), oil wells. F. R. M., **R**, XI, 212 = Ledaung.
- Letchmapur (Laxmipuram), *Warangal* (65 C/8;  $17^{\circ} 5' : 80^{\circ} 16'$ ), Cuddapah limestone. R. B. F., **R**, XVIII, 22.
- Letkaung, *Mandalay* (93 B/8;  $22^{\circ} 2' : 96^{\circ} 26'$ ), carbonaceous *Lingula* beds. T. D. L., **M**, XXXIX, pt. 2, 255, 336.
- Letskobin, *Shwebo* (84 N/13;  $22^{\circ} 48' : 95^{\circ} 55'$ ), coal seam. W. K., **R**, XXVII, 34; analysis. R. R. S., **M**, XLI, 72.
- Letpadaung, Letpandaung, *L. Chindwin* (84 N/4;  $22^{\circ} 5' : 95^{\circ} 6'$ ), copper-ore. E. J. J., **R**, XX, 176; E. H. P., **R**, LX, 27; volcanic rocks, 90.
- Letpan, *Yamethin* (93 D/4;  $20^{\circ} 15' : 96^{\circ} 3' 30''$ ), kaolin. E. H. P., **R**, LVIII, 28.
- Letpandaw, *N. Shan States* (93 B/7;  $22^{\circ} 24' 30'' : 96^{\circ} 20' 30''$ ), copper-ore. L. L. F., **R**, XXXIII, 234.
- Letpanhla, *Pakokku* (84 K/7;  $21^{\circ} 17' : 94^{\circ} 21' 30''$ ), coalfield. G. C., **R**, XLIV, 168 (Pl. xi, fig. 3).
- Lettera hill, *Cutch* (41 I/3;  $23^{\circ} 16' : 70^{\circ} 9'$ ), trap flows, sub-nummulitic. A. B. W., **M**, IX, 138.



- Lettok, *Myingyan* (84 O/3; 21° 17' : 95° 7'), Red bed, Irrawadian series. E. H. P., **R**, LIX, 72.
- Lewa, *Toungoo* (94 B/16; 18° 9' : 96° 59'), Chaung Magyi beds. E. L. C., **R**, LX, 296; biotite-granite, 300.
- Lewa Taung, *Amherst* (94 L/9; 16° 48' : 98° 30'), Kamawkala limestone, fossils. G. C., **R**, LV, 280; oil shales, 298; J. W. G., **R**, LXIII, 156.
- Lewe, *Yamethin* (94 A/2; 19° 38' : 96° 6'), *Batissa* beds. E. H. P., **R**, LVIII, 46.
- Lezin, *Thayetmyo* (85 M/10; 19° 34' : 95° 33'), Pegu series, fossils. E. H. P., **R**, LVIII, 47.
- Lhasa, *Tibet* (77 O/2; 29° 39' : 91° 8'), Jurassic beds. H. H. H., **R**, XXXII, 166; granite. **M**, XXXVI, 161, 181; Cretaceous beds, 169; earthquake, 1897, time record. R. D. O., **M**, XXIX, 38.
- Lhonak La, *Sikkim* (78 A/5; 27° 55' : 88° 28'), moraines. H. H. H., **M**, XXXVI, 136; Trias (?), 144, 151.
- Liam, *Khasi Hills* (78 O/16; 25° 14' : 91° 45'), Sylhet trap, contact with gneiss. H. B. M., **M**, VII, 185.
- Liangi, *Singbhum* (73 F/5; 22° 48' 30" : 85° 15'), folding in Iron Ore series. J. A. D., **M**, LIV, 79.
- Li-chiang Fu, *Yunnan* (101 B/1; 26° 53' : 100° 8'), silver-lead mines. J. C. B., **M**, XLVII, 125.
- Lidar R. (East), *Kashmir* (43 N/8; 34° 4' : 75° 23'), glaciation. J. L. G., **M**, XLIX, pt. 2 (Pls. xii-xxxviii).
- Likhi, *Idar* (46 E/2; 23° 42' : 73° 1' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 85; quartz-porphyry, 126.
- Likwanu, *Mandi* (53 A/10; 31° 41' 30" : 76° 44'), Siwalik conglomerate. H. B. M., **M**, III, pt. 2, 136.
- Lilameta, *Balaghat* (64 B/8; 22° 1' : 80° 24' 30"), manganese-ore. L. L. F., **M**, XXXVII, 693.
- Lilang, *Spiti* (52 L/4; 32° 9' : 78° 14'), Triassic fossils. F. S., **M**, V, 32, 37; L. Triassic sequence. A. K., A. R., 1900, 200; U. Trias. H. H. H., **M**, XXXVI, 78; Cretaceous, 86; L. Trias. C. D., **M**, XXXVI, 216, 222 (fig.); Muschelkalk, 257 (fig.); U. Trias, 295-299 (fig.).
- Lilchha, *Idar* (46 E/1; 23° 46' : 73° 12'), Idar granite. C. S. M., **M**, XLIV, 54.
- Lilinthi, *Almora* (62 B/16; 30° 14' : 80° 59'), Permo-Triassic beds. C. L. G., **M**, XXIII, 192; L. Trias. C. D., **M**, XXXVI, 228; U. Trias, 322.
- Lillari R., *Sambalpur* (64 O/13; 21° 50' : 83° 50'), coal seams. W. K., **R**, VIII, 106; G. F. R., A. R., 1900, 66; borings. W. K., **R**, XVII, 128; XVIII, 197; XIX, 211, 224; XX, 200; G. F. R., **M**, XXXII, 117; R. R. S., **M**, XLI, 86.
- Lilola, *Alwar* (54 A/7; 27° 24' : 76° 25' 30"), Kushalgarh limestone. A. M. H., **M**, XLV, 59.
- Lilu, *N. Shan States* (93 F/5; 22° 51' : 97° 18' 30"), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 76, 92; overthrust fault, 136; Silurian fossils, 138.
- Limeri (*Lomeri*), *Garhwal* (53 N/3; 30° 18' : 79° 0'), gabbro, petrology. C. S. M., **R**, XXI, 18 (Pl. i, figs. 5-7).

- Limodra, *Rajpipla* (46 G/2;  $21^{\circ} 44' : 73^{\circ} 9'$ ), carnelian industry. P. N. B., **R**, XXXVII, 177, 188; manganiferous iron slag. L. L. F., **M**, XXXVII, 661.
- Limpa (Nimpa), *U. Chindwin* (83 O/9;  $25^{\circ} 47' : 95^{\circ} 33'$ ), alluvial gold. H. S. B., **R**, XLIII, 254.
- Lin-chia-p'u, *Yunnan* (92 K/11;  $25^{\circ} 17' : 98^{\circ} 42' 30''$ ), schists. J. C. B., **R**, XLVII, 247.
- Lindok, *Sikkim* (78 A/11;  $27^{\circ} 23' : 88^{\circ} 35'$ ), copper-ore. P. N. B., **R**, XXIV, 226.
- Ling, *Ladakh* (52 F/3;  $34^{\circ} 17' : 77^{\circ} 12'$ ), Tertiary limestone with *Estheria*. R. L., **R**, XIII, 37.
- Ling Sugur, *Raichur* (56 D/12;  $16^{\circ} 9' : 76^{\circ} 31'$ ), red syenite gneiss. R. B. F., **M**, XII, 45; basic dykes, 59, 62.
- Linga, *Chhindwara* (55 K/13;  $21^{\circ} 58' : 78^{\circ} 56'$ ), Deccan trap flows. L. L. F., **R**, XLVII, 83 (Pls. vii-xvi).
- Linga, *Thayetmyo* (85 I/14;  $19^{\circ} 41' : 94^{\circ} 56'$ ), oil seepage. E. H. P., **M**, XL, 169.
- Lingagoodium, *Warangal* (65 C/5;  $17^{\circ} 56' : 80^{\circ} 17' 30''$ ), Kamthi beds, boundary. W. K., **R**, V, 49; X, 60.
- Lingah, *Persian Gulf* (18 J/14;  $26^{\circ} 33' : 54^{\circ} 53'$ ), Fars series. G. E. P., **M**, XXXIV, pt. 4, 34, 111.
- Lingala, *Godavari* (65 B/16;  $18^{\circ} 0' 30'' : 80^{\circ} 50'$ ), coalfield. W. T. B., **R**, IV, 59, 109; **M**, XVIII, 301; W. K., **M**, XVIII, 194; R. R. S., **M**, XLI, 97.
- Lingalavalsa, *Vizagapatam* (65 N/11;  $18^{\circ} 16' 30'' : 83^{\circ} 41' 30''$ ), manganese-ore. L. L. F., **M**, XXXVII, 434-5, 402-3, 1048.
- Linganapeta, *Adilabad* (56 N/13;  $18^{\circ} 54' 30'' : 79^{\circ} 53'$ ), Kamthi beds. W. K., **R**, XIII, 24.
- Lingcham, *Sikkim* (78 A/3;  $27^{\circ} 16' 30'' : 88^{\circ} 13'$ ), Daling series-gneiss boundary. P. N. B., **R**, XXIV, 46.
- Lingmala, *Satara* (47 G/9;  $17^{\circ} 55' : 73^{\circ} 42'$ ), manganese-ore. L. L. F., **M**, XXXVII, 502, 665.
- Lingahi La, *Tibet* (78 E/5;  $27^{\circ} 57' : 89^{\circ} 28'$ ), glacial lakes. H. H. H., **M**, XXXVI, 134; moraines, 136.
- Lingtam, *Sikkim* (78 A/10;  $27^{\circ} 31' 30'' : 88^{\circ} 30'$ ), calcite vein in gneiss. P. N. B., **R**, XXIV, 229.
- Lingti R., *Spiti* (52 L/7;  $32^{\circ} 15' : 78^{\circ} 19'$ ), Permian conglomerate. H. H. H., **M**, XXXVI, 52, 108; Cretaceous beds, 86.
- Lingti valley, *Ladakh* (52 H/5;  $32^{\circ} 57' : 77^{\circ} 28'$ ), Carboniferous-Triassic beds. R. L., **R**, XIII, 51; **M**, XXII, 171; H. H. H., **M**, XXXVI, 57, 111; U. Trias. F. S., **M**, V, 341; C. D., **M**, XXXVI, 316.
- Lingtu, *Sikkim* (78 A/15;  $27^{\circ} 16' : 88^{\circ} 48'$ ), calcite veins in gneiss. P. N. B., **R**, XXIV, 221.
- Lingui (Linje), *Sikkim* (78 A/11;  $27^{\circ} 16' : 88^{\circ} 36'$ ), copper-ore. P. N. B., **R**, XXIV, 226.
- Lingumpilly (Lingapalem), *Nellore* (57 N/11;  $14^{\circ} 22' 30'' : 79^{\circ} 43' 30''$ ), quartz-rock, Archæan. W. K., **M**, XVI, 137.
- Lingungarh, *Khairagarh* (64 C/15;  $21^{\circ} 16' : 80^{\circ} 45'$ ) altered Chilpi Ghat beds. P. N. B., **R**, XXI, 59.

- Lingwa, *Minbu* (84 L/16; 20° 12' : 94° 52'), Plateau Red Earth. E. H. P., **M**, XL, 157.
- Linshot, *Zangskar* (52 C/13; 33° 55' 30" : 76° 49'), nummulitic limestone. T. D. L., **R**, XXI, 161; XXIII, 67.
- Lio, *Bashahr* (53 I/9; 31° 53' : 78° 35'), Cambrian conglomerate. H. H. H., **M**, XXXVI, 11; Carboniferous limestone, 36; wollastonite, 98 = Leo.
- Lipak R., *Bashahr* (53 I/9; 31° 54' : 78° 32'), Cambrian conglomerate. H. H. H., **M**, XXXVI, 11; Devonian, 34; Carboniferous, 36-48, 59; gypsum 41, 101.
- Lipingi, *Surguja* (64 N/1; 22° 51' : 83° 2' 30'), Talchir beds. V. B., **R**, XV, 110.
- Lipu Lekh, *Almora* (62 F/4; 30° 14' : 81° 2'), Devonian-Carboniferous, section. C. L. G., **M**, XXIII, 193 (Pl. ix, fig. 5).
- Lipunga, *Singhbhum* (73 F/8; 22° 14' 30" : 85° 25'), fault, Iron-ore series. H. C. J., **R**, LIV, 208.
- Liqia, *Oman* (26 I/6; 23° 33' : 58° 17'), Eocene pebble bed. G. E. P., **M**, XXXIV, pt. 4, 96.
- Lissar R., *Almora* (62 B/7; 30° 18' : 80° 30'), Carboniferous-Trias, sections. C. L. G., **M**, XXIII, 165 (Pls. vii, viii); L-U. Trias, fauna. C. D., **M**, XXXVI, 227, 269, 277; glaciers. J. L. G., **R**, XLIV, 285, 334 (figs. & Pls. xxx-xlii).
- Lisu R., *Darjeeling* (78 B/9; 26° 57' : 88° 31'), coal seams. P. N. B., **R**, XXIII, 251 (Pl. xxii); R. R. S., **M**, XLI, 36.
- Li-tzu-ping, *Yunnan* (101 K/12; 25° 9' : 102° 38'), Permo-Carboniferous limestone. J. C. B., **R**, XLIV, 111.
- Loa, *Ranchi* (73 F/1; 22° 46' 30" : 85° 2'), tourmaline-pegmatite. L. A. N., **R**, LXV, 501.
- Loagudi, *Ganjam* (74 A/7; 19° 29' : 84° 23'), hot spring. T. O., **M**, XIX, 143.
- Loari, *Mewar* (45 O/6; 25° 39' : 75° 24'), Gwalior-Aravalli boundary. A. L. C., **R**, LX, 166.
- Loaria, *Banswara* (46 I/1; 23° 45' 30" : 74° 13' 30") conglomerate, Delhi series (?). T. D. L., **R**, XL, 117.
- Lobah, *Garhwal* (53 N/8; 30° 3' : 79° 17'), volcanic rocks. C. S. M., **R**, XX, 162 = Lohba.
- Lobi, *Bhandara* (55 O/10; 21° 34' 30" : 79° 42'), gondite. L. L. F., **M**, XXXVII, 751 (note).
- Lobpur, *Birbhum* (73 M/13; 23° 49' : 87° 48'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 325.
- Lochambel-ki-chak, *Hundes* (62 B/6; 30° 41' : 80° 20'), exotic blocks. C. D., **M**, XXVIII, 9; XXXVI, 335.
- Lodae, *Lodai, Cutch* (41 E/15; 23° 24' : 69° 53' 30"), Jurassic beds, section. A. B. W., **M**, IX, 152; ammonites. W. W., **R**, IV, 99.
- Lodhikhera, *Ohhindwara* (55 K/14; 21° 35' : 78° 52'), Lameta limestone. P. N. D., **R**, XXXIII, 225; faults in Deccan trap. L. L. F., **R**, LIV, 43.
- Lodhra, *Jammu* (43 O/4; 33° 10' : 75° 8'), coalfield. R. R. S., **M**, XXXII, 222 (Pls. i & iv, fig. 3); XLI, 101.
- Lododih, *Singhbhum* (73 F/10; 22° 44' : 85° 40' 30"), ultrabasic inclusion in granite. J. A. D., **M**, LIV, 98.

- Lodona, *Manbhurn* (73 I/6; 23° 43' 30" : 86° 25' 30"), coal seam, section. T. W. H. H., **M**, V, 250.
- Lodowa (Lidarra), *Jaisalmer* (40 J/13; 26° 59' : 70° 48'), Jurassic fossils. R. D. O., **R**, XIX, 158.
- Lodran, *Multan* (39 O/10; 29° 33' : 71° 37'), meteorite. T. O., **R**, II, 20; J. C. B., **M**, XLIII, 229.
- Lodranee, *Cutch* (41 I/9; 23° 54' : 70° 37'), Jurassic-Eocene, section. A. B. W., **M**, IX, 111.
- Logar (valley), *Afghanistan* (38 F/S. W.; 34° 20' : 69° 10'), metamorphic rocks. C. L. G., **R**, XXV, 74; H. H. H., **M**, XXXIX, 16, 20.
- Loghra, *Allahabad* (63 G/12; 25° 13' : 81° 40' 30"), glass-making sand. H. H. H., **R**, LII, 294.
- Lohagara, *Dinajpur* (78 B/8; 26° 2' : 88° 22'), geodetic station. R. D. O., **M**, XLII, 222.
- Lohara, *Chanda* (55 P/11; 20° 23' : 79° 44'), iron-ore. T. O., **R**, III, 77; T. W. H. H., **R**, VI, 77; P. N. D., **R**, XXXVIII, 308; analysis. T. W. H. H., **M**, XIII, 110; L. L. F., **R**, L, 286.
- Loharee, *Behl* (55 G/13; 21° 49' : 77° 55' 30"), Intertrappean fossils. W. T. B., **M**, VI, 271.
- Lohargarh, *Darjeeling* (78 B/1; 26° 48' 30" : 88° 11' 30"), iron-ore. F. R. M., **M**, XI, 47, 65.
- Lohari hill, *Raipur* (64 I/2; 20° 36' : 82° 14'), granite. V. B., **R**, X, 185.
- Loharia, *Cutch* (41 E/16; 23° 5' 30" : 69° 53'), *Otozamites imbricatus*. O. F., **R**, IX, 32.
- Loharpura (E.), *Bundi* (45 O/14; 25° 32' 30" : 75° 55'), iron-ore. A. L. C., **R**, LX, 191.
- Loharpura (W.), *Bundi* (45 O/11; 25° 28' : 75° 40'), L. Rewah sandstone. A. L. C., **R**, LX, 170; Ganurgarh shales, 173; iron-ore, 191.
- Loharwari, *Alwar* (54 A/10; 27° 34' 30" : 76° 41'), folding in Ajabgarh series. A. M. H., **M**, XLV, 82; black marble, 126.
- Lohba, *Garhwal* (53 N/8; 30° 3' : 79° 17'), iron-ore. A. W. L., **R**, II, 88 = Lobah.
- Lohdongri, *Nagpur* (55 O/7; 21° 19' 30" : 79° 21' 30"), braunite. L. L. F., **M**, XXXVII, 56, 60 (fig. & Pl. ii); psilomelane, 112, 114; spessartite, 172; manganese-ore, 914 (figs. & Pls. xxxviii-xl).
- Lohil Bela, *Punch* (43 K/5; 33° 49' : 74° 18' 30"), graphitic slate. D. N. W., **M**, LI, 307.
- Lohundia, *Santal Parganas* (72 O/8; 25° 3' : 87° 23'), Rajmahal beds, sections. V. B., **M**, XIII, 211, 212; pottery clay, 240; fire-clay. M. S., **R**, XXXVIII, 140.
- Loi-an, *S. Shan States* (93 D/10; 20° 38' : 96° 35' 30"), coalfield. E. H. P., **R**, LV, 15, 33; LXIII, 119.
- Loi Han Hun, *N. Shan States* (93 F/15; 22° 29' : 97° 58'), volcanic dome, Pleistocene. T. D. L., **R**, XXXVI, 41 (Pls. x, xi); **M**, XXXIX, pt. 2, 313, 365; E. H. P., **M**, XI, 46.
- Loihkam, *Ruby Mines* (93 B/13; 22° 53' : 96° 51'), microcline-granite. T. D. L., **M**, XXXIX, pt. 2, 59.

- Loi-hkaw, *N. Shan States* (93 F/2; 22° 32' 30" : 97° 5' 30"), Estheria beds. T. D. L., **M**, XXXIX, pt. 2, 255 (fig.); travertine, 341 (Pl. xxi).
- Loi Hke, *S. Shan States* (93 K/6; 21° 39' : 98° 20' 30"), antimony-ore. H. C. J., **R**, LIII, 48; J. C. B., **R**, LVI, 92.
- Loihsang, *S. Shan States* (93 G/9; 21° 53' : 97° 37' 30"), antimony-ore. H. C. J., **R**, LIII, 50. J. C. B., **R**, LVI, 92.
- Loi-hsawng, *N. Shan States* (93 E/7; 23° 20' : 97° 18'), granite boundary. E. H. P., **R**, LXIII, 92.
- Loikaw, *Karenni* (94 E/2; 19° 40' : 97° 13'), Permo-Carboniferous limestone. C. S. M., **A. R.**, 1900, 142; Burma earthquakes, 1912. J. C. B., **M**, XLII, 45, 119; Pegu earthquake, 1930. **R**, LXV, 241.
- Loi Kok, *S. Shan States* (93' G/13; 21° 58' 30" : 97° 48'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 83.
- Loi-lam, *N. Shan States* (93 F/3; 22° 25' : 97° 3'), oolitic limestone, Rhætic. T. D. L., **M**, XXXIX, pt. 2, 263 (Pl. xv, fig. 2).
- Loilem, *S. Shan States* (93 G/2; 21° 31' : 97° 12'), Burma earthquakes, 1912. J. C. B., **M**, XLII, 42, 123; aftershocks, 125-128.
- Loi-len, *N. Shan States* (93 J/1; 22° 56' 30" : 98° 0' 30"), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 80.
- Loi Ling, *N. Shan States* (93 J/2; 22° 38' : 98° 5'), Chaung Magyi series. T. D. L., **M**, XXXIX, pt. 2, 50.
- Loi Ma-raw, *N. Shan States* (93 E/4; 23° 5' : 97° 11'), Chaung Magyi series, boundary with granite. J. C. B., **R**, XLVIII, 137.
- Loimawk, *N. Shan States* (93 F/6; 22° 30' : 97° 19'), hot spring. T. D. L., **M**, XXXIX, pt. 2, 363.
- Loi Mi, *N. Shan States* (93 E/8; 23° 7' : 97° 16'), copper slags. T. D. L., **R**, XXXVII, 247; **M**, XXXIX, pt. 2, 371.
- Loi Mong-Mong, *N. Shan States* (93 E/3; 23° 16' : 97° 14'), granite. J. C. B., **R**, XLVIII, 137.
- Loimye, *Myitkyina* (92 C/5; 25° 51' : 96° 30'), volcanic focus. E. H. P., **R**, LXIII, 101.
- Loi-nawk, *N. Shan States* (93 I/4; 23° 5' : 96° 1' 30"), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 80.
- Loi Pamong, *S. Shan States* (93 G/9; 21° 50' : 97° 43'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 83.
- Loi Sampu, *S. Shan States* (93 H/9; 20° 46' : 97° 30'), limestone. C. S. M., **A. R.**, 1900, 140.
- Loi Tawngkyaw, *N. Shan States* (93 E/4; 23° 2' : 97° 10'), Chaung Magyi series. J. C. B., **R**, XLVIII, 138.
- Loi Twang, *N. Shan States* (93 G/9; 21° 58' : 97° 40'), alluvial gold. T. D. L., **R**, XXXV, 102; **M**, XXXIX, pt. 2, 374.
- Lokakaira, *Bellary* (57 B/6; 14° 37' : 76° 30'), green quartzite. R. B. F., **M**, XXV, 42.
- Lokapur, *Mudhol* (47 P/8; 16° 9' 30" : 75° 22'), U. Kaladgi beds, section. R. B. F., **M**, XII, 132.

- Lokartalai, Lokurtullyc, *Hoshangabad* (55 F/7; 22° 22' : 77° 26'), coal seam. J. G. M., **M**, II, 149; H. B. M., **R**, IV, 68 (Pl. i); borings. E. J. J., **M**, XXIV, 11; R. R. S., **M**, XLI, 92; Mahadeva conglomerates. W. T. B., **M**, VI, 245.
- Lokhan, *Idur* (46 E/2; 23° 42' 30" : 73° 12'), chromite. C. S. M., **M**, XLIV, 108.
- Lolinj (Doab-i-Loling), *Afghanistan* (38 B/9; 34° 58' : 68° 37' 30"), Ghorband limestone. H. H. H., **M**, XXXIX, 49.
- Lomati, *Salween* (94 F/2; 18° 33' : 97° 7'), gneissic series. E. L. C., **R**, LX, 295; Plateau Limestone, 298.
- Lonar, *Buldana* (56 A/9; 19° 59' : 76° 31'), lake. W. T. B., **R**, I, 62; R. D. O., **R**, XXXIV, 147; T. D. L., **R**, XLI, 266 (figs. & Pls xxv-xxviii); L. L. F., **R**, XLVII, 126; soda salts. W. K. C., **R**, XLI, 276; L. L. F., **R**, L, 295.
- Londku (Lunku), *Chitral* (42 D/7; 36° 26' 30" : 72° 21'), orpiment mines. L. L. F., **R**, LIV, 17.
- Long I., *Andamans* (86 D/15; 12° 23' : 92° 57'), shelly sandstones and limestones, travertine. E. R. G., **R**, LIX, 223.
- Longaparti, *Vizagapatam* (65 J/16; 18° 11' : 82° 59'), sapphirine. H. C., **R**, LXIII, 446.
- Longloi hill, *Nongong* (83 G/1; 25° 55' : 93° 13' 30"), gneiss. F. H. S., **M**, XXVIII, 76; Cretaceous beds with coal, 78, 93; R. R. S., **M**, XLI, 21.
- Longtawktao, *N. Shan States* (93 F/5; 22° 56' : 97° 16' 30"), volcanic rocks. Bawdwin series. T. D. L., **M**, XXXIX, pt. 2, 56.
- Longyi, *Pakokku* (84 L/1; 20° 47' : 94° 7'), copper-ore. E. H. P., **R**, LVIII, 25.
- Lonkin, *Myitkyina* (92 C/6; 25° 39' : 96° 22'), Tertiary beds. E. H. P., **R**, LXII, 109; alluvial gold. LXIII, 35; jadeite, 39.
- Loogoo hill, *Hazaribagh* (73 E/9; 23° 47' : 85° 41'), Panchet beds. T. W. H. H., **M**, VI, 103.
- Lookoorwa, *Hazaribagh* (73 E/5; 23° 51' 30" : 85° 15'), Barakar stage, coal seams. A. J., **M**, LII, 26.
- Loorin, *Cutch* (41 E/11; 23° 25' 30" : 69° 41'), *Arca radiata*, Gaj series. F. V., **M**, L, 414.
- Loorwara hill, *Banda* (63 C/15; 25° 15' : 80° 55'), Semri series. H. B. M., **M**, II, 15.
- Lopar, *Kashmir* (43 O/15; 33° 28' 30" : 75° 49' 30"), folding in gneissic series. R. L., **R**, XI, 52.
- Lopso hill, *Kharsavan* (73 F/9; 22° 48' : 85° 44'), copper-ore. E. S., **R**, III, 88; tremolite- and kyanite-rock. V. B., **M**, XVIII, 130; corundum. L. L. F., **R**, XXXVI, 128 = Lapsa Buru.
- Lora, *Rewah* (64 A/14; 23° 34' : 80° 46'), Talchir beds. T. W. H. H., **M**, XXI, 149.
- Lora hill, *Jubbulpore* (64 A/3; 23° 30' : 80° 10'), manganiferous iron-ore. F. R. M., **R**, XVI, 101; L. L. F., **M**, XXXVII, 825; iron smelting. P. N. B., **R**, XXI, 87; recent deposition of manganese-ore. XXII, 225.
- Loran, *Punch* (43 K/5; 33° 50' : 74° 20'), Agglomerate Slate. D. N. W., **M**, LI, 237; Gondwana plants 247; ironstone shales, 367.

- Loreta (Lurehta), *Narsinghpur* (55 N/5; 22° 54' 30" : 79° 20' 30"), anticline in crystalline rocks. J. G. M., **M**, II, 132.
- Losar, *Spiti* (52 H/15; 32° 26' 30" : 77° 45'), Silurian. H. H. H., **M**, XXXVI, 29; Devonian, 34; Carboniferous, 44; Fenestella shales, 50, 57.
- Losodtoli, *Singhbhum* (73 F/2; 22° 40' : 85° 8' 30"), metamorphosed tuffs. J. A. D., **M**, LIV, 66, 87.
- Lota, *Singhbhum* (73 F/5; 22° 46' : 85° 25' 30"), actinolite-schist. V. B., **M**, XVIII, 130; folded epidiorite. J. A. D., **M**, LIV, 89; *lit-par-lit* injection of granite, 106 (fig.).
- Lota Pahar, *Singhbhum* (73 F/10; 22° 37' : 85° 34'), fault-breccia. J. A. D., **M**, LIV, 23 (Pl. iii, fig. 1); arkose, 36; silicified shales, 38; tuffs, 62; railway ballast, 158; limestone, 165.
- Lotiana, *Merwara* (45 K/1; 25° 54' 30" : 74° 11'), graphitic. E. H. P., **R**, LVI, 29.
- Lotki, *Surguja* (64 M/2; 23° 33' : 83° 15'), tourmaline-granite. C. L. G., **M**, XV, 136.
- Lowarali, *Kathiawar* (41 F/4; 22° 10' 30" : 69° 5'), Gaj series. *Ostrea*. E. V., **M**, L, 423.
- Lowo, *Jodhpur* (45 B/1; 26° 52' : 72° 2'), Talchir boulder bed. W. T. B., **R**, X, 13, 18; T. D. L., **M**, XXXV, 31, 44; A. M. H., **R**, LXV, 466.
- Lua, *Mewar* (45 P/1; 24° 57' : 75° 9'), meteorite. A. L. C., **R**, LXI, 310, (Pls. xxii-xxv).
- Luagarkheyl (Laogar Khel), *Waziristan* (38 H/14; 32° 32' 30" : 69° 49' 30"), lignite. R. R. S., **M**, XLI, 108.
- Luan, *Singpho Hills* (92 A/2; 27° 30' 30" : 96° 12'), coal seams. E. H. P., **R**, XLI, 216.
- Lu-ch'ang, *Sou-chuan* (101 J/2; 26° 33' : 102° 13' 30"), copper mine. J. C. B., **M**, XLVII, 121.
- Lu-chia-chai, *Yunnan* (92 O/4; 25° 12' : 99° 13' 30"), *Phillipsia*. J. C. B., **R**, XLVII, 236.
- Luchna, *Khairagarh* (64 C/15; 21° 21' 30" : 80° 49'), basaltic rocks, Chilp Ghat series. P. N. B., **R**, XXI, 59.
- Luckeeserai, *Monghyr* (72 K/4; 25° 11' : 86° 5'), Bijawar conglomerates (?). H. B. M., **R**, II, 43; earthquake, 1897, time record. R. D. O., **M**, XXIX, 64, 71.
- Lucknow, *United Provs.* (63 B/13; 26° 51' : 80° 55'), Artesian boring. R. D. O., **R**, XXIII, 261; E. V., **M**, XXXII, 30; earthquake, 1897. R. D. O., **M**, XXIX, 36; time record, 65, 71; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 245.
- Ludar Marg (Liddarmar), *Kashmir* (43 K/10; 33° 37' 30" : 74° 35'), leaf bed in Karewas. C. S. M., **R**, XLI, 121.
- Ludhiana, *Punjab* (44 N/13; 30° 55' : 75° 51'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 173 (fig.).
- Ludihana, *Sirmur* (53 F/6; 30° 42' 30" : 77° 26'), Chail series. G. E. P., **M**, LIII, 34.
- Ludu (Lodu), *Kashmir* (43 K/13; 34° 0' : 74° 59' 30"), Zewan beds. C. S. M., **R**, XXXVII, 313.

- Lu-fung Hsien, *Yunnan* (101 K/4; 25° 8' : 102° 6'), Pleistocene beds. J. C. B. **R**, XLIV, 115; iron smelting. **M**, XLVII, 83.
- Lukhkai, *N. Shan States* (93 J/1; 22° 55' 30" : 98° 11'), caldron valley. T. D. L., **M**, XXXIX, pt. 2, 25 (Pl. iii); Rhætic fossils, 287.
- Lukman Khel, *Kurram* (38 K/1; 33° 57' : 70° 2'), 'erratics'. G. C., **R**, LXI, 329.
- Lukmeepur, *Cutch* (41 E/3; 23° 27' : 69° 1'), Intertrappean beds, fossils. A. B. W., **M**, IX, 218.
- Lukput, *Cutch* (41 A/13; 23° 49' 30" : 68° 47'), ochre. A. B. W., **M**, IX, 90; Jurassic beds (?), 235; Nummulitic beds, 236 = Lakhpat.
- Lukud Buru, *Singbhum* (73 F/6; 22° 40' : 85° 27'), hematite-schist. J. A. D., **M**, LIV, 27, 163.
- Lum Nongsynrih, *Khasi Hills* (78 O/7; 25° 25' : 91° 27'), granite. R. W. P., **R**, LV, 156.
- Lum Nyangram, *Khasi Hills* (78 O/3; 25° 25' : 91° 14' 30'), granite. R. W. P., **R**, LV, 156; Cretaceous beds, 161.
- Lumchibahal, *Sambalpur* (64 O/13; 21° 49' : 83° 55'), coal seam. G. F. R., **A. R.**, 1900, 68.
- Lumding, *Nowgong* (83 G/1; 25° 45' : 93° 10'), earthquake, 1897, sounds. R. D. O., **M**, XXIX, 194.
- Lumna (Lamrapara), *Drug* (64 C/14; 21° 41' : 80° 58'), felsite pebbles in Chandarpur conglomerate. P. N. B., **R**, XXI, 57.
- Lumpi I., *Mergui* (96 J/1; 10° 55' : 98° 10'), tin-ore. E. H. P., **R**, LIX, 52.
- Lun (Lon), *Chitral* (42 D/4; 36° 11' : 72° 4'), Carboniferous shale series. H. H. H., **R**, XLV, 287.
- Luna, *Cutch* (41 E/6; 23° 43' : 69° 15' 30"), flooded area, earthquake, 1819. R. D. O., **M**, XLVI, 94, 95.
- Lu-nan Chou, *Yunnan* (101 P/5; 24° 46' : 103° 16'), iron-smelting. J. C. B., **M**, XLVII, 83; copper mines, 104.
- Lunda peak, *Punch* (43 K/1; 34° 0' : 74° 14'), Dogra Slates. D. N. W., **M**, LI, 298.
- Lundigar (Lunda Maira ki Dhoken), *Attock* (43 C/15; 33° 27' : 72° 50'), oil seepage. C. S. M., **R**, XLIX, 213.
- Lungaung, *Mandalay* (93 C/5; 21° 48' : 96° 20'), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 90.
- Lungkoi, *Khasi Hills* (78 O/11; 25° 30' : 91° 36'), iron-ore. T. O., **M**, I, 202.
- Lungkung, *Naga Hills* (83 J/4; 26° 3' : 94° 1'), Tipam sandstones. H. H. H., **R**, XL, 290.
- Lungleh, *Lushai Hills* (84 B/9; 22° 53' : 92° 45'), Cretaceous fossils. T. D. L., **R**, XXIV, 98.
- Lung-ling, *Yunnan* (92 L/10; 24° 35' : 98° 42'), metamorphic rocks. J. C. B., **R**, XLVII, 250.
- Lungma (N.), *Tibet* (77 H/13; 28° 51' 30" : 89° 58'), Jurassic fossils. H. H. H., **R**, XXXII, 166; **M**, XXXVI, 160.
- Lungma (S.), *Tibet* (77 D/12; 28° 3' : 88° 36' 30"), Jurassic limestone, fossils. H. H. H., **M**, XXXVI, 164 (Pl. ix, fig. 2).
- Lungmo-chhe glacier, *Ladakh* (52 E/10; 35° 43' : 77° 35'), movements of snout. K. M., **R**, LXIII, 276 (Pl. vii, 33).



- Lungni, *Punch* (43 K/6; 33° 43' : 74° 27'), dolerite sills. D. N. W., **M**, LI, 220; Gondwana beds. 310.
- Lungtse R., *Spiti* (52 L/4; 32° 3' : 78° 12'), Upper Trias, section. H. H. H., **M**, XXXVI, 83 (Pl. v).
- Lungurial, *Hazara* (43 G/1; 33° 56' : 73° 8'), concretionary limestone, Slate series. C. S., **M**, M, XXVI, 12; Trias-Eocene, section, 209.
- Lung-yu-t'sun, *Yunnan* (101 C/10; 25° 39' : 100° 33'), volcanic rocks. J. C. B., **R**, LIV, 81.
- Lunjakola (Lanjakota), *Kurnool* (57 M/2; 15° 36' : 79° 10' 30'), rippling in Cumbum quartzite. W. K., **M**, VIII, 237.
- Lunjgran, *Punch* (43 G/9; 33° 49' : 73° 42' 30'), U. Murree boundary. D. N. W., **M**, LI, 331.
- Lunkamulla (Lankamalai), *Cuddapah* (57 J/14; 14° 40' : 78° 55'), limestone-Nallamalai series. W. K., **M**, VIII, 232.
- Lunkha, *Palamanu* (73 A/5; 23° 50' : 84° 17'), magnetite. V. B., **M**, XV, 115.
- Lunsu, *Gurdaspur* (43 P/16; 32° 26' : 75° 53'), hot spring. H. B. M., **M**, III, pt. 2, 146.
- Lunu, *Jodhpur* (40 O/5; 25° 49' : 71° 20'), unconformity, Barmer sandstone, Malani series. T. D. L., **M**, XXXV, 77.
- Lup Gaz, *Kashgar* (42 K/16; 37° 3' : 74° 55'), calcareous beds, Sarikol series. H. H. H., **R**, XLV, 300.
- Lu-piao-kai, *Yunnan* (101 L/5; 24° 58' 30" : 102° 17'), Cambrian beds. J. C. B., **R**, XLIV, 99; Permo-Triassic beds, 114.
- Lupra, *Ranchi* (73 A/14; 23° 38' 30" : 84° 56' 30"), Raniganj stage. A. J., **M**, LII, 130.
- Lur (Lor), *Kashmir* (43 O/5; 33° 56' : 75° 17'), Fenestella series. C. S. M., **R**, XXXVII, 323; XL, 228.
- Lurgurtha (? Lubudhiatola), *Hazaribagh* (72 H/4; 24° 11' : 85° 5' 30"), hot spring, saline. L. L. F., **R**, LIII, 291.
- Lurmi, *Bilaspur* (64 F/11; 22° 16' : 81° 42'), Vindhyan-gneiss contact. W. K., **R**, XVIII, 176.
- Lurunga, *Hazaribagh* (73 E/5; 23° 46' 30" : 85° 20'), coal seams. T. W. H. H., **M**, VII, 300.
- Lushui, *Yunnan* (92 P/1; 24° 46' 30" : 99° 4'), Carboniferous limestone and tuffs. J. C. B., **R**, XLVII, 256.
- Luskerpore, *Sylhet* (78 P/8; 24° 10' : 91° 28' 30"), Srimangal earthquake, 1918. M. S., **M**, XLVI, 16.
- Lussun, *Hazara* (43 G/1; 33° 55' 30" : 73° 11'), Trias-Eocene, section. C. S. M., **M**, XXVI, 200 (fig.).
- Lutayi, *Oman* (26 I/6; 23° 35' : 58° 28'), Eocene beds. G. E. P., **M**, XXXIV, pt. 4, 89, 94.
- Lutherwan, *Kashmir* (43 O/9; 33° 46' : 75° 32'), Silurian fossils. C. S. M., **R**, XL, 215; F. C. R., **R**, XLII, 17.
- Lutshan, *Amherst* (95 E/13; 15° 47' 30" : 97° 54'), Moulmein limestone. E. H. P., **R**, LXIII, 95 = Hlutsha.

- Lyallpur, *Punjab* (44 E/3;  $31^{\circ} 25' : 73^{\circ} 5'$ ), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 231.
- Lynyan, *Karachi* (40 C/2;  $25^{\circ} 40' : 68^{\circ} 9'$ ), coal seam. W. T. B., **M**, VI, 4, 13 = Lainyan and Leilan.
- Maastoh, (Mawstoh) *Khasi Hills* (78 O/12;  $25^{\circ} 12' : 91^{\circ} 39'$ ), coal seam. R. R. S., **M**, XLI, 25.
- Mabawmaw, *Myitkyina* (92 C/6;  $25^{\circ} 42' : 96^{\circ} 21'$ ), salt works. E. H. P., **R**, LXIII, 49.
- Mabhana, *Simla* (53 E/4;  $31^{\circ} 5' : 77^{\circ} 11' 30''$ ), Chail overthrust. G. E. P., **M**, LIII, 90.
- Macdonald's Choultry, *Salem* (58 E/14;  $11^{\circ} 33' : 77^{\circ} 59'$ ), mica-pegmatite, C. L. G., **R**, XXVIII, 88.
- Mach, *Bolan Pass* (34 O/5;  $29^{\circ} 52' : 67^{\circ} 19'$ ), coalfield. W. T. B., **R**, XV, 150; **M**, XX, 151, 175; W. K., **R**, XXIV, 6; R. R. S., **M**, XLI, 33 = Much.
- Mach, *Sibi* (34 N/10;  $30^{\circ} 37' : 67^{\circ} 38'$ ), Triassic beds, *Halorites*. E. V., **R**, XXXI, 164.
- Ma-ch'ang, *Yunnan* (101 F/6;  $26^{\circ} 36' : 101^{\circ} 27' 30''$ ), coalfield. J. C. B., **M**, XLVII, 69.
- Machel (Matsel), *Kishnowar* (52 C/7;  $33^{\circ} 25' : 76^{\circ} 20'$ ), sapphire. F. R. M., **R**, XV, 140; beryl. T. D. L., **R**, XXIII, 65 = Machial.
- Machhia, *Rawalpindi* (43 G/4;  $33^{\circ} 10' : 73^{\circ} 0'$ ), M. Siwalik anticline. D. N. W., **M**, LI, 342.
- Machhiara, *Kashmir* (43 F/10;  $34^{\circ} 30' 30'' : 73^{\circ} 37'$ ), Salkhala series. D. N. W., **R**, LXV, 198.
- Machial, *Kishtwar* (52 C/7;  $33^{\circ} 25' : 76^{\circ} 20'$ ), columbite. G. H. T., **R**, LII, 307 = Machel.
- Machilpur, *Karauli* (54 F/2;  $26^{\circ} 38' : 77^{\circ} 14'$ ), Upper Bhander stage. A. M. H., **M**, XLV, 168, 169.
- Machilu, *Ladakh* (52 A/8;  $35^{\circ} 15' : 76^{\circ} 24'$ ), Carboniferous rocks. R. L., **R**, XIV, 8.
- Machiriva R., *Narsinghpur* (55 N/5;  $22^{\circ} 49' : 79^{\circ} 20'$ ), Jabalpur series, coal seam. J. G. M., **M**, II, 270; H. B. M., **M**, X, 144.
- Machna R., *Behul* (55 F/16;  $22^{\circ} 8' : 77^{\circ} 45'$ ), Barakar stage, section. J. G. M., **M**, II, 159; H. B. M., **R**, VIII, 78 (Pl. ii); R. R. S., **M**, XLI, 93; Gondwana boundary fault. E. J. J., **M**, XXIV, 17.
- Machuk R., *Nimar* (55 B/15;  $22^{\circ} 19' : 70^{\circ} 50'$ ), metamorphic rocks, outliers of trap. W. T. B., **M**, VI, 247.
- Madakere, *Chitaldrug* (57 C/5;  $13^{\circ} 53' 30'' : 76^{\circ} 23' 30''$ ), manganese-cr. L. L. F., **M**, XXXVII, 1124.
- Madagam, *Karimnagar* (65 B/2;  $18^{\circ} 43' : 80^{\circ} 4'$ ), Kamthi beds (?). W. K., **R**, XIII, 20.
- Madalam (Midalam), *Travancore* (58 H/4;  $8^{\circ} 12' : 77^{\circ} 13'$ ), Warkalli beds. B. B. F., **R**, XVI, 28.
- Madan, *Fersia* (22 L/7;  $36^{\circ} 28' : 58^{\circ} 20''$ ), turquoise. C. L. G., **R**, XIX, 62; nummulitic rocks, 64 = Maden.

- Madan Bhil, *Naini Tal* (53 O/7; 29° 18' : 79° 15'), travertine. C. S. M., **M**, XXIV, 78.
- Madanootta, *Sanial Parganas* (72 L/12; 24° 11' : 86° 42'), coal mine. R. R. S., **M**, XLI, 40.
- Madapur, *Nalgonda* (56 O/6; 17° 37' : 79° 22'), diorite dyke. R. B. F., **R**, XVIII, 30.
- Madar, *Afghanistan* (33 M/15; 35° 23' : 67° 48'), recumbent fold. H. H. H., **M**, XXXIX, 3; Cretaceous-Tertiary sequence. 38, 68 (fig. & Pl. xix) = Mathar.
- Madavaram, *Warangal* (65 G/3; 17° 28' 30" : 81° 13'), coalfield. W. T. B., **R**, IV, 60; W. K., **M**, XVIII, 192; R. R. S., **M**, XLI, 96.
- Maday R., *Thayetmyo* (85 M/4; 19° 0' : 95° 3'), serpentine dyke. W. T., **M**, X, 334.
- Maddallapatti, *Warangal* (65 C/4; 17° 14' : 80° 5'), diorite dykes. R. B. F., **R**, XVIII, 29.
- Maddawaram, *Kurnool* (57 I/3; 15° 30' : 78° 6'), steatite. F. R. M., **R**, XXII, 61, 67; J. R. Royle, **R**, XXIII, 125 = Moodwacam.
- Maddikeri, *Kurnool* (57 E/8; 15° 15' : 77° 25'), pistacite-gneiss. R. B. F., **R**, XIX, 100.
- Maddire, *Warangal* (65 D/5; 16° 55' : 80° 22'), granite tor. R. B. F., **R**, XVIII, 14.
- Maden, *Persia* (22 L/7; 36° 28' : 58° 20'), turquoise mines. A. H. Schindler, **R**, XVII, 132 = Madan.
- Madaya, *Mandalay* (93 B/4; 22° 13' : 96° 6'), Burma earthquake, 1912. J. C. B., **M**, XLII, 19.
- Madh, *Bikaner* (45 A/13; 27° 52' : 72° 56'), bauxitic clay. C. S. F., **M**, XLIX, 100 = Mar.
- Madh, *Cutch* (41 A/14; 23° 32' : 68° 57'), pyritous shale. L. L. F., **R**, XLVI, 227 = Mhurr.
- Madhabpur, *Burdwan* (73 M/2; 23° 37' : 87° 10'), coal seam. R. R. S., **M**, XLI, 46.
- Madhanpur, *Kalahandi* (64 P/11; 20° 18' 30" : 83° 32'), basic form of granitoid gneiss. T. L. W., **M**, XXXIII, pt. 3, 7.
- Madhopur jungle, *Mymensingh* (78 L/2; 24° 37' : 90° 2'), origin of elevated tract. H. B. M., **R**, XVIII, 156.
- Madhopurwa, *Rewah* (63 L/7; 24° 24' : 82° 27'), Bijawar conglomerate. R. D. O., **M**, XXXI, 132.
- Madhupur, *Murshidabad* (79 A/5; 23° 57' : 88° 28'), geodetic station. R. D. O., **M**, XLII, 223.
- Madikada (Modikkadavu), *Coimbatore* (58 E/6; 11° 41' : 77° 18'), auriferous quartz reef. H. H. H., **M**, XXXIII, pt. 2, 55.
- Madinhal, *Bijapur* (56 D/3; 16° 21' : 76° 4' 30"), lode-like structure in granite vein. R. B. F., **M**, XII, 65.
- Madkamhatu (E.), *Singhbhum* (73 F/14; 22° 32' : 85° 48' 30"), building stone. J. A. D., **M**, LIV, 158; fire-clay, 164.
- Madkamhatu (W.), *Singhbhum* (73 F/10; 22° 37' : 85° 36'), sheared dolerite dyke. J. A. D., **M**, LIV, 136.

- Madoli, *Sirmur* (53 F/6; 30° 42' : 77° 27'), inversion of Blaini-Krol beds. G. E. P., **M**, LIII, 32.
- Madoram, *Adilabad* (56 M/8; 19° 10' : 79° 23' 30'), Talchir boulder bed. T. W. H. H., **R**, XI, 18.
- Madras (66 C/8; 13° 4' : 80° 17'), well-sections in marine alluvium. R. B. F., **M**, X, 16; E. V., **M**, XXXII, 49; Srimangal earthquake, 1918, time record. M. S., **M**, XLVI, 37, 49 (Pl. v).
- Madukamhatu, *Ranchi* (73 F/9; 22° 52' : 85° 39' 30'), feather amphibolite. J. A. D., **M**, LIV, 59.
- Madukarai, *Coimbatore* (58 B/13; 10° 54' : 76° 58'), marble. H. F. B., **M**, I, 224 (figs.), 246; C. L. G., **R**, XXVIII, 152; C. S. M., **A. R.**, 1898, 20 = Muddakuray.
- Madura, *Madras* (58 K/1; 9° 55' : 78° 7'), laterite conglomerate. R. B. F., **M**, XX, 49; Srimangal earthquake, 1918, subsidiary centrum. M. S., **M**, XLVI, 50, 55 (Pl. xii).
- Magam, *Kashmir* (43 J/12; 34° 5' 30" : 74° 35' 30"), Kashmir earthquake, 1885. E. J. J., **R**, XVIII, 223.
- Magardha, *Hoshangabad* (55 F/4; 22° 9' : 77° 9' 30'), high dip in Deccan trap. H. B. M., **R**, VIII, 71.
- Magaria (E.), *Hoshangabad* (55 J/2; 22° 35' 30" : 78° 6'), Pachmarhi beds. E. H. P., **R**, LXIII, 111.
- Magaria (W.), *Hoshangabad* (55 F/13; 22° 48' : 77° 47' 30"), ossiferous conglomerate. W. T., **M**, II, 294.
- Magarkatta (Mungarkota), *Seoni* (55 O/9; 21° 52' 30" : 79° 40' 30") kaolinite. R. C. B., **R**, XLVIII, 207.
- Magarkund, *Drug* (64 G/2; 21° 43' : 81° 2'), iron-ore. P. N. B., **R**, XX, 168; basaltic rocks. XXI, 60.
- Magaruth, *Jubbulpore* (64 A/10; 23° 41' 30" : 80° 33'), isoclinal folding in schists. J. G. M., **M**, II, 132.
- Magura, *Jessore* (79 E/7; 23° 29' : 89° 25'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 328.
- Magwe, *Burma* (84 L/16; 20° 9' : 94° 55'), Burma earthquake, 1912. J. C. B., **M**, XLII, 64; Srimangal earthquake, 1918. M. S., **M**, XLVI, 33.
- Magwe, *S. Shan States* (93 I/10; 20° 37' : 96° 36'), copper and gold. C. S. M., **A. R.**, 1900, 151.
- Magyibin, *Wuntho* (83 P/12; 24° 5' 30" : 95° 33' 30"), brine spring. F. N., **R**, XXVII, 119.
- Magyizu, *Minbu* (84 L/16; 20° 6' 30" : 94° 55'), Plateau Gravel. E. H. P., **M**, XL, 157.
- Maha Champa (Masanpa), *Mergui* (95 L/11; 12° 24' : 98° 31'), iron-ore, lateritic. P. N. B., **R**, XXVI, 162.
- Mahabank, *Mahabagh, Hazaribagh* (72 I/7; 24° 24' : 86° 23'), lead-ore. L. L. F., **R**, LIII, 282; molybdenite, 293.
- Mahabar (Muhawar) hill, *Hazaribagh* (72 H/14; 24° 43' : 85° 46'), quartzites and schists. H. B. M., **R**, II, 42; F. R. M., **R**, VII, 39.
- Mahableshwar, *Satara* (47 G/9; 17° 55' : 73° 39'), Deccan trap, thickness. W. T. B., **M**, VI, 147; limonite, assay. G. S. L., **R**, XXX, 252; laterite, analysis. T. H. H., **R**, XXXII, 181; L. L. F., **M**, XXXVII, 376.

- Mahaburu, *Singhbhum* (73 F/16; 22° 4' : 85° 59'), granite bosses. L. A. N., **R**, LXV, 516.
- Mahadeo Pokra, *Nepal* (72 E/10; 27° 41' 30" : 85° 31'), geodetic station. R. D. O., **M**, XLII, 248.
- Mahadevpura, *Idar* (46 E/2; 23° 35' : 73° 7'), Delhi quartzite. C. S. M., **M**, XLIV, 89, 90.
- Mahaispur, *Surguja* (64 M/3; 23° 27' : 83° 10'), Talchir beds. V. B., **R**, VI, 27.
- Mahaisri, *Monghyr* (72 L/6; 24° 41' : 86° 15' 30"), mica. T. H. H., **M**, XXXIV, 45; beryl, 52 = Mahesri.
- Mahalgau, *Bhandara* (64 C/4; 21° 1' : 80° 2'), green mica in quartzite. S. K. C., **R**, LXV, 536.
- Mahali Murup, *Suraikela* (73 F/13; 22° 45' 30" : 85° 53'), sericite-chlorite-schist. J. A. D., **M**, LIV, 85.
- Mahan R., *Surguja* (64 M/3; 23° 26' : 83° 5'), Barakar stage, sections. V. B., **R**, VI, 31; Gondwana beds, section. C. L. G., **M**, XV, 191 (Pl. v, fig. 3).
- Mahanaddi R., *Darjeeling* (78 B/5; 26° 48' : 88° 24'), coal seam. F. R. M., **M**, XI, 25; section of Tertiary beds, 47; copper-ore, 73 = Manunda R.
- Mahanandi, *Kurnool* (57 I/11; 15° 28' : 78° 38'), hot springs. T. O., **M**, XLX, 146.
- Mahanpur (Mohanpura), *Alwar* (54 A/6; 27° 44' : 76° 18'), Ajabgarh phyllites. A. M. H., **M**, XLV, 86; pegmatite, 99.
- Mahanuddi R., *Jubbulpore* (64 A/10; 23° 37' : 80° 38'), Upper Damuda (Lameta) beds. J. G. M., **M**, II, 176; coal seam, 269; R. R. S., **M**, XLI, 87.
- Mahar, *Gaya* (72 H/2; 24° 43' : 85° 9'), geodetic station. R. D. O., **M**, XLII, 220.
- Maharajgadi, *Salem* (57 L/6; 12° 37' : 78° 15'), augite-norite dyke. T. H. H., **R**, XXX, 27; Dharwar rocks. E. H. P., **R**, LVIII, 59.
- Maharkund, *Nagpur* (55 K/14; 21° 31' 30" : 78° 59'), marble. P. N. D., **R**, XXXIII, 222; E. H. P., **R**, LVIII, 55; piedmontite. L. L. F., **M**, XXXVII, 189.
- Mahasu, *Simla* (53 E/8; 31° 6' : 77° 17'), Simla slates. H. B. M., **M**, III, pt. 2, 38; white quartzite, Jaunsar series. C. E. P., **M**, LIII, 118.
- Mahavalipuram, *Chingleput* (66 D/2; 12° 37' : 80° 11' 30"), quartzo-felspathic gneiss. R. B. F., **M**, X, 127 = Seven Pagodas.
- Mahdavy (Mahadevi), *Trichinopoly* (58 I/8; 11° 8' 30" : 78° 24'), iron-ore. W. K., **M**, IV, 288; bedded gneiss, 307 (fig.).
- Mahendragiri, *Ganjam* (74 B/5; 18° 58' : 84° 22'), building stone. V. B., **R**, VII, 102; supposed occurrence of sapphires. F. H. S., **A. R.**, 1900, 163.
- Mahesian, *Jhelum* (43 G/8; 33° 1' 30" : 73° 29'), Siwalik dome-fold. E. H. P., **R**, LXIII, 128.
- Mahesri, *Monghyr* (72 L/6; 24° 41' : 86° 15' 30"), mica. H. H. H., **R**, L, 16; beryl. L. L. F., **R**, LIII, 266 = Mahaisri.
- Mahgawan, *Jubbulpore* (64 A/2; 23° 34' : 80° 14'), bauxite. C. S. F., **M**, XLIX, 112.
- Mahiganj, *Rangpur* (78 G/6; 25° 43' : 89° 18'), earthquake, 1897, sand-vents. R. D. O., **M**, XXIX, 320.

- Mahila, *Chamba* (52 D/3 ; 32° 29' : 76° 11'), granitoid gneiss. C. A. M., **R**, XVI, 38.
- Mahilla, *Aden* (7 C/16 ; 13° 1' : 44° 53'), well sections. F. R. M., **M**, VII, 273.
- Mahilpur, *Bhopal* (55 I/3 ; 23° 16' 30" : 78° 3'), Ganurgarh shales. E. V., **A. R.**, 1898, 40.
- Mahim, *Bombay* (47 A/16 ; 19° 2' : 72° 51'), sand dunes. A. B. W., **M**, V, 206, 225.
- Mahipalgarh, *Belgaum* (48 I/5 ; 15° 54' : 74° 23'), laterite. C. S. F., **M**, XLIX, 68.
- Mahodaung Chaung, *L. Chindwin* (84 J/10 ; 22° 43' : 94° 40'), oil seepage. E. H. P., **M**, XL, 145, 146.
- Mahok, *Myitkyina* (92 C/6 ; 25° 44' : 96° 23'), chromite. E. H. P., **R**, LXIII, 30 ; jadeite, 40.
- Maholi, *Nagpur* (55 O/3 ; 21° 25' : 79° 11' 30"), quartz-iron-ore rocks. L. L. F., **R**, LIV, 46.
- Mahomed Bazar, *Birbhum* (73 M/9 ; 23° 59' : 87° 35'), iron-works. V. B., **M**, XIII, 242 ; analysis of ore, 248 = Muhammad Bazar.
- Mahomed Khel, *Waziristan* (38 H/13 ; 32° 57' : 69° 54'), igneous rocks. F. H. S., **R**, XXVIII, 109.
- Mahora hill, *Rewah* (64 E/15 ; 23° 24' : 81° 50'), dolerite sill, U. Gondwana. C. S. F., **M**, XLIX, 106.
- Mahtin, *Bilaspur* (64 J/6 ; 22° 44' : 82° 25' 30"), gneiss. W. K., **R**, XVIII, 171 ; Talehir beds, 192.
- Mahton R., *Prome* (85 J/14 ; 18° 36' : 94° 47'), Axial series. W. T., **R**, IV, 34.
- Mahu, *U. Chindwin* (84 J/10 ; 22° 44' : 94° 36'), carbonaceous shale. E. H. P., **R**, LXII, 34 ; Natma series, 106.
- Mahuldura, *Ohhindwara* (55 K/13 ; 21° 47' : 78° 48'), granitic gneiss. P. N. D., **R**, XXXIII, 223.
- Mahun, *Persia* (24 F/8 ; 30° 5' : 57° 18'), U. Liassic fossils. G. H. T., **R**, LIII, 59 ; Siwalik beds, 67.
- Mahura, *Attock* (43 C/6 ; 33° 36' 30" : 72° 26' 30"), Cretaceous-Eocene boundary. E. H. P., **M**, XL, 385.
- Mahwari, *Acnchi* (73 A/15 ; 23° 26' : 34° 54'), geodetic station. R. D. O., **M**, XLII, 220.
- Maidan, *Afghanistan* (38 B/S. E. ; 34° 25' : 68° 40'), marble. H. H. H., **M**, XXXIX, 21.
- Maihmani, *Persia* (25 F/3 ; 26° 29' 30" : 57° 14'), *Placuna iranica*, Makran series. E. V., **R**, LV, 117 (Pl. xviii) ; **M**, L, 422.
- Mai-i, *Sandoway* (85 I/3 ; 19° 20' : 94° 9'), Cretaceous ammonite. W. T., **M**, X, 311.
- Maiki, *Rewah* (64 E/7 ; 23° 21' 30" : 81° 25'), Raniganj plants. T. W. H. H., **M**, XXI, 189.
- Maili (Gwaila), *Mandi* (53 A/9 ; 31° 55' : 76° 42'), cranium of *Stegodon*. R. L., **R**, IX, 42.
- Maili, *Punch* (43 K/1 ; 33° 55' 30" : 74° 11'), Dogra slates and limestone. D. N. W., **M**, LI, 228, 229.
- Mailog, *Simla* (53 B/13 ; 30° 58' : 76° 54'), Nahan sandstone, petrology. C. A. M., **R**, XVI, 189.

- Mailsi, *Multan* (44 C/1; 29° 47' 30" : 72° 11'), meteorite. J. C. B., **M**, XLIII, 217 = Mysli.
- Mailur, *Nilgiri* (58 A/11; 11° 18' : 76° 42'), gneiss. H. F. B., **M**, I, 221.
- Maimansingh, Maimensingh, *Bengal* (78 L/5; 24° 46' : 90° 24'), Bengal earthquake, 1885. C. S. M., **R**, XVIII, 206, 208; earthquake, 1897. G. E. G., **M**, XXIX, 292; aftershocks. R. D. O., **M**, XXX, 8 = Mymensingh.
- Main Pat, *Surguja* (64 N/N.-W.; 22° 48' : 83° 15'), bauxite. C. S. F., **M**, XLIX, 151.
- Maindi, *Chhindwara* (55 K/14; 21° 34' : 78° 54'), calciphyre, petrology. L. L. F., **R**, XXXIII, 193 = Medi.
- Maingay l., *Mergui* (95 L/2; 12° 32' : 98° 15'), galena. T. H. H., **R**, XXXVIII, 57; assay. G. S. L., **R**, XXVII, 68.
- Mainghkwan, *Hukawng* (92 B/11; 26° 19' : 96° 36'), amber mines. F. N., **R**, XXV, 130; XXVI, 31; M. S., **R**, LIV, 404.
- Mainglon, *N. Shan States* (93 B/9; 22° 47' 30" : 96° 37'), tourmaline mines. F. N., **R**, XXIV, 125 = Mong Long.
- Maingnin, *Mongmit* (93 A/16; 23° 14' : 96° 46'), tourmaline mines. E. C. S., George, **R**, XXXVI, 233; J. C. B., **R**, LVI, 83.
- Maingthong hill, *Wuntho* (83 P/12; 24° 10' : 95° 44'), eruptive rocks. F. N., **R**, XXVII, 116; J. C. B., **R**, LVI, 84.
- Mainpuri, *United Provs.* (54 M/4; 27° 14' : 79° 1'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 114; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 237.
- Maiobum, *Singpho Hills* (92 A/7; 27° 27' : 96° 15' 30"), coal and gas. T. D. L., **R**, XIX, 112; E. H. P., **M**, XL, 308, 323; R. R. S., **M**, XLI, 16.
- Mai-Pouk (Napoko), *Toungoo* (94 B/15; 18° 19' : 96° 52'), hot spring. T. O., **M**, XIX, 151.
- Maira (E.), *Rawalpindi* (43 G/6; 33° 44' 30" : 73° 16'), L. Murree beds. D. N. W., **M**, LI, 348.
- Maira (W.), *Rawalpindi* (43 C/15; 33° 27' 30" : 72° 55' 30"), M. Siwalik beds. D. N. W., **M**, LI, 342.
- Mairang, *Khasi Hills* (78 O/10; 25° 33' 30" : 91° 38' 30"), earthquake, 1897, change of level. R. D. O., **M**, XXIX, 157; aftershocks. XXX, 27.
- Maithur, *Bellary* (57 B/1; 14° 51' : 76° 7'), trap dykes. R. B. F., **M**, XXV, 161.
- Maitine, *Toungoo* (94 G/1; 17° 49' : 97° 2'), hot spring. T. O., **M**, XIX, 151.
- Maituputti (Mettuppatti), *Salem* (58 I/6; 11° 40' : 78° 19'), iron-ore bed. W. K., **M**, IV, 282.
- Maitur, *Burdwan* (73 I/14; 23° 42' : 86° 58'), Panchet plants. W. T. B., **M**, III, 130; E. R. G., **R**, LXIII, 205.
- Maum, *Singpho Hills* (92 A/4; 27° 11' : 96° 2'), Tertiary bds, coal seam. T. D. L., **R**, XIX, 111.
- Maiwand pass, *Afghanistan* (34 E/6; 31° 42' : 65° 16'), Cretaceous limestone. C. L. G., **M**, XVIII, 43 (Pls. x & xi, fig. 1).
- Maj Borholi, *Aka Hills* (83 A/12; 27° 10' : 92° 42'), Damuda beds, section. T. D. L., **R**, XVIII, 122.
- Majgama, *Panna*, (63 D/2; 24° 38' 30" : 80° 2'), diamond workings. E. V., **R**, XXXIII, 286.

- Majgama, *Rewah* (63 H/7; 24° 18' : 81° 19' 30"), Kaimur-Rohtas junction. P. N. D., **M**, XXXI, 158.
- Majgama (Majhgawan), *Rewah* (64 A/14; 23° 33' : 80° 46' 30"), felspar-pegmatites. F. R. M., **R**, XXII, 144.
- Majgawan, *Patarkhechar* (63 D/13; 24° 55' : 80° 48'), diamond workings. E. V., **R**, XXXIII, 286 = Mujgoan.
- Majhafa, *Aden* (7 C/16; 13° 2' 30" : 44° 55' 30"), well section. F. R. M., **M**, VII, 274.
- Majhar, *Gwalior* (54 J/8; 26° 6' : 78° 28'), geodetic station. R. D. O., **M**, XLII, 218.
- Majhauri, *Palamau* (72 D/4; 24° 10' : 84° 8'), serpentine marble. L. L. F., **R**, LXV, 35.
- Majhauri Raj, *Gorakhpur* (63 N/15; 26° 18' : 83° 58'), geodetic station. R. D. O., **M**, XLII, 225.
- Majhgaon (N.), *Jubbulpore* (64 A/5; 23° 49' : 80° 29' 30"), lateritic iron-ore. F. R. M., **R**, XVI, 106; L. L. F., **R**, L, 287.
- Majhgaon (S.), *Jubbulpore* (64 A/3; 23° 24' : 80° 12' 30"), manganese-ore. L. L. F., **M**, XXXVII, 822.
- Majhgaon, *Singhbhum* (73 F/16; 22° 6' : 85° 53'), granite tors. L. A. N., **R**, LXV, 516.
- Majri, *Chanda* (55 P/4; 20° 8' : 79° 2'), boring for coal. T. O., **R**, III, 47.
- Majri, *Singhbhum* (73 F/10; 22° 41' 30" : 85° 40'), kaolin. J. A. D., **M**, LIV, 164.
- Majurdaki, *Surguja* (64 I/14; 23° 31' 30" : 82° 57'), basaltic sill. C. L. G., **M**, XV, 152.
- Makahama, *Kashmir* (43 J/12; 34° 4' 30" : 74° 36'), Kashmir earthquake, 1885. E. J. J., **R**, XVIII, 223.
- Makapin, *Myitkyina* (92 C/7; 25° 29' : 96° 18'), coal seams. E. H. P., **R**, LXII, 34.
- Makarwal R., *Mianwali* (38 P/1; 32° 53' : 71° 9'), coal seam. R. R. S., **R**, XXXI, 22; **M**, XLI, 111.
- Makhad, *Attock* (38 O/12; 33° 8' : 71° 44'), 'Indobrahm' river. E. H. P., **M**, XL, 459, 467 = Makhud.
- Makhiala, *Punch* (43 F/12; 34° 0' 30" : 73° 37'), U. Murrec passage beds. D. N. W., **M**, LI, 332.
- Makhinsuk, *N. Shan States* (93 B/15; 22° 25' 30" : 96° 51'), Silurian beds. T. D. L., **M**, XXXIX, pt. 2, 134.
- Makhni, *Punch* (43 K/1; 33° 56' : 74° 14'), Gondwana syncline. D. N. W., **M**, LI, 246.
- Makhud, *Attock* (38 O/12; 33° 8' : 71° 44'), Siwalik conglomerate. W. W., **R**, XVII, 122 = Makhad.
- Maki Nai, *Larkhana* (35 M/8; 27° 2' : 67° 21'), alum manufactura. W. T. B., **M**, XVII, 195.
- Makin, *Waziristan* (38 H/14; 32° 38' 30" : 69° 49'), older alluvium. M. S., **R**, LIV, 93.
- Makrabbi, *Bellary* (48 N/9; 14° 56' : 75° 44'), high-level gravels. R. B. F., **M**, XXV, 180.



- Makrach, *Jhelum* (43 D/14; 32° 40' : 72° 53'), coal seam. A. B. W., **M**, XIV, 169; Cambrian-Eocene, section, 172; C. S. M., **R**, XXIV, 23 (Pl. ii, fig. 2); E. H. P., **R**, LXII, 160; glaciated pavement. F. N., A. **R**, 1903, 26.
- Makrana, *Jodhpur* (45 I/12; 27° 2' : 74° 44'), marble quarries. C. A. H., **R**, XIII, 250; XIV, 286; T. D. L., **M**, XXXV, 17; T. H. H., **R**, XXXIX, 260; H. H. H., **R**, XLIV, 17.
- Makranai, *Buner* (43 B/14; 34° 30' 30" : 72° 51'), augen-gneiss, petrology. C. S. M., **M**, XXVI, 65.
- Maku R., *U. Chindwin* (84 I/6; 23° 41' : 94° 22'), coal seams. R. R. S., **M**, XLI, 73.
- Makum, *Lakhimpur* (83 M/11; 27° 16' : 95° 39'), coalfield. H. B. M., **M**, IV, 396; F. R. M., **M**, XII, 304 (Pl. ii); R. R. S., **R**, XXXIV, 239 (Pl. xxx); **M**, XLI, 17, 124 (Pls. i-iii); analyses of coal and fire-clay. F. R. M., **R**, XV, 58; G. S. L., **R**, XXIII, 50; petroleum. H. B. M., **M**, IV, 415; T. W. H. H., **R**, VII, 56; F. R. M., **M**, XII, 280, 356; W. K., **R**, XXII, 10; E. H. P., **M**, XL, 302 (Pl. lxix).
- Makundapur, *Patiala* (54 A/1; 27° 59' : 76° 4' 30"), marble. P. N. B., **R**, XXXIII, 60.
- Makurty, *Nilgiri* (58 A/11; 11° 22' : 76° 31'), wind-gap. H. F. B., **M**, I, 241 (fig.).
- Makwari (Dzolechili), *Naga Hills* (83 O/1; 25° 52' : 95° 5'), metamorphosed Disang beds. E. H. P., **R**, XLII, 261.
- Makyinu, *Mandalay* (93 B/8; 22° 0' 30" : 96° 24'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 77.
- Mal Amir, *Persia* (10 E/13; 31° 52' 30" : 49° 53'), Cretaceous shales. G. E. P., **M**, XXXIV, pt. 4, 83, 86.
- Mala Konda, *Nellore* (57 M/12; 15° 7' : 79° 38'), mica-schists with staurolite and kyanite. R. B. F., **M**, XVI, 15.
- Mala Nungaveram, *Trichinopoly* (58 J/9; 10° 52' 30" : 78° 32'), Karumbar rings. W. K., **M**, IV, 369.
- Malagarh hill, *Yeotmal* (56 M/1; 19° 56' : 79° 2'), manganese-ore. T. W. H. H., **R**, VII, 125; **M**, XIII, 76; L. L. F., **M**, XXXVII, 367, 979.
- Malai, *Khasi Hills* (78 O/8; 25° 14' : 91° 28' 30"), ash bed, Sylhet trap. R. W. P., **R**, LV, 158.
- Malakand, *Swat* (38 N/14; 34° 34' : 71° 56'), schists and granite. T. H. H., **R**, XXXV, 35; H. H. H., **R**, XLV, 275.
- Malakapuram, *Kurnool* (57 E/15; 15° 20' 30" : 77° 59'), hot spring. T. O., **M**, XIX, 147.
- Malakheri, *Alwar* (54 A/11; 27° 23' : 76° 37'), Berla quartzite. C. A. H., **R**, X, 89, 92.
- Malakpur, *Jhelum* (43 H/6; 32° 40' : 73° 28'), Siwalik beds, section. G. E. P., **R**, XLIII, 273 (Pl. xxviii, fig. 1).
- Malakpur, *Rawalpindi* (43 G/6; 33° 30' : 73° 16'), U. Siwalik fossils. D. N. W., **M**, LI, 362.
- Malan, *Las Bela* (35 G/3; 25° 18' : 65° 11'), Makran series, *Ostrea*. E. V., **M**, L, 427 = Ras Malan.
- Malan, *Tonk* (45 L/10; 24° 34' : 74° 35' 30"), Vindhyan limestone. H. H. H., **R**, XLIV, 29; basal conglomerate, Vindhyan. E. H. P., **R**, LIX, 97.

- Malana, *Kulu* (52 H/8;  $32^{\circ} 3' 30''$  :  $77^{\circ} 16'$ ), Kangra earthquake, 1905, landslips. C. S. M., **M**, XXXVIII, 63, 65 (Pl. xv, fig. 1).
- Malangi, *Attock* (38 O/15;  $33^{\circ} 17' 30''$  :  $71^{\circ} 45'$ ), fault. L. L. F., **R**, LXV, 123.
- Malangutti Yaz glacier, *Hunza* (42 P/3;  $36^{\circ} 28'$  :  $75^{\circ} 13'$ ), movements of snout. K. M., **R**, LXIII, 244 (Pl. vi, 12).
- Malanjkhandi, *Balaghat* (64 B/12;  $22^{\circ} 1'$  :  $80^{\circ} 43'$ ), copper-ore. W. K., **R**, XIX, 165; L. L. F., **R**, L, 282.
- Malanur (Mallur), *Gulbarga* (56 D/7;  $16^{\circ} 27'$  :  $76^{\circ} 27'$ ), L. Bhima shales. R. B. F., **M**, XII, 145.
- Malapuram, *Malabar* (58 A/4;  $11^{\circ} 3'$  :  $76^{\circ} 5'$ ), formation of gorge. P. L., **M**, XXIV, 203 (Pl. i, fig. 2); laterite terraces, 224.
- Malarasure (Mel Arasur), *Trichinopoly* (58 I/16;  $11^{\circ} 1'$  :  $78^{\circ} 57' 30''$ ), boulder bed, Utatur stage. H. F. B., **M**, IV, 95 (fig.).
- Malareddipully (Nallareddipalli), *Nellore* (57 M/7;  $15^{\circ} 16' 30''$  :  $79^{\circ} 27' 30''$ ), chloritic schists. R. B. F., **M**, XVI, 22.
- Malari, *Garhwal* (53 N/14;  $30^{\circ} 41' 30''$  :  $79^{\circ} 53'$ ), Haimanta conglomerate, relations with gneiss. C. L. G., **M**, XXIII, 98.
- Malarna, *Jaipur* (54 B/7;  $26^{\circ} 17'$  :  $76^{\circ} 28'$ ), Gwalior beds, fault. A. M. H., **M**, XLV, 140 (fig.), 174, 178.
- Malasa, *Idar* (46 E/1;  $23^{\circ} 48' 30''$  :  $73^{\circ} 11'$ ), Mundeti limestone. C. S. M., **M**, XLIV, 56; quartz-porphry, 127, 128 (Pl. xv, fig. 4); 'kankar', 145; hone-stones, 58, 146.
- Malauna, *Bilaspur State* (53 A/11;  $31^{\circ} 15' 30''$  :  $76^{\circ} 37'$ ), dam-site. L. L. F., **R**, LII, 21.
- Malayagiri, *Pal Lahara* (73 G/7;  $21^{\circ} 22'$  :  $85^{\circ} 16'$ ), hematite-quartzite. H. H. H., **R**, L, 15.
- Malayanur, *S. Arcot* (58 M/2;  $11^{\circ} 41'$  :  $79^{\circ} 13'$ ), granitoid gneiss tor. W. K., **M**, IV, 302 (Pl. iii).
- Malbadapur, *Puri* (73 H/11;  $20^{\circ} 29'$  :  $85^{\circ} 36'$ ), metamorphic rocks. V. B., **R**, X, 64.
- Malcolm Peth, *Satara* (47 G/9;  $17^{\circ} 56'$  :  $73^{\circ} 35'$ ), aluminous laterite. C. S. F., **M**, XLIX, 87.
- Maldah, *Bengal* (78 C/4;  $25^{\circ} 2' 30''$  :  $88^{\circ} 8' 30''$ ), Cachar earthquake, 1869. T. O., **M**, XIX, 32; earthquake, 1897, fissures. R. D. O., **M**, XXIX, 109, 327.
- Maldipoor (Maljipura), *Rajpipla* (46 G/2;  $21^{\circ} 44'$  :  $73^{\circ} 14'$ ), Eocene beds, section. W. T. B., **M**, VI, 357.
- Male, *Shwebo* (84 M/16;  $23^{\circ} 2'$  :  $95^{\circ} 58'$ ), Pegu fossils. E. H. P., **R**, LXIII, 23.
- Maledi, Maleri (Marweli), *Adilabad* (56 M/12;  $19^{\circ} 11'$  :  $79^{\circ} 36'$ ), fish-teeth and reptiles. T. O., **M**, I, 295 (Pls. xiv-xvi); T. W. H. H., **M**, XIII, 85; **R**, XI, 26; W. K., **M**, XVIII, 269.
- Malehta (Malaita), *Jhansi* (54 O/1;  $25^{\circ} 47'$  :  $79^{\circ} 14'$ ), selenite. C. A. Silberrad, **R**, XLII, 57.
- Maleygaon, *Chhindwara* (55 K/14;  $21^{\circ} 31'$  :  $78^{\circ} 56'$ ), quartz-pyroxene-gneiss, petrology. L. L. F., **R**, XXXIII, 191.
- Malga, *Revah* (64 I/4;  $23^{\circ} 8' 30''$  :  $82^{\circ} 5'$ ), coal seams. T. W. H. H., **M**, XXI, 243.
- Malga, *Simla* (53 F/1;  $30^{\circ} 59' 30''$  :  $77^{\circ} 4'$ ), Jaunsar beds. E. H. P., **R**, LXII, 166.
- Malgi, *Bijapur* (47 P/12;  $16^{\circ} 3'$  :  $75^{\circ} 32' 30''$ ), L. Kaladgi beds. R. B. F., **M**, XII, 109.

- Malgi, *Simla* (53 E/7; 31° 16': 77° 18'), Shali limestone. H. B. M., **M**, III, pt. 2, 50.
- Malgin, *Kohat* (38 O/11; 33° 20': 71° 31' 30"), salt quarries. H. W., **M**, XI, 300, 307; M. S., **R**, L, 31; bituminous gypsum and salt. E. H. P., **M**, XL, 415 (Pl. lxxxiii); fish remains in gypseous series. L. L. F., **R**, LXV, 114.
- Malia, *Kathiawar* (41 I/16; 23° 5' 30": 70° 45' 30"), raised beach. F. F., **M**, XXI, 131.
- Maliagura, *Rewah* (64 E/3; 23° 20': 81° 3'), coal seam. T. W. H. H., **M**, XXI, 172=Muliagora.
- Malik Gatt (Gatt-i-Barot), *Chagai* (30 P/9; 28° 57': 63° 36'), *Cardita beaumonti* beds. E. V., **M**, XXXI, 199, 241 (Pls. v & viii, fig. 2).
- Maliri, *Larkhana* (35 O/13; 25° 59': 67° 47'), Khirthar-Nari boundary. W. T. B., **M**, XVII, 118.
- Maliwun, *Mergui* (96 J/12; 10° 14': 98° 36'), tin-ore. T. W. H. H., **R**, XXII, 201; J. C. B., **R**, L, 119; assays. G. S. L., **R**, XXIV, 135, 259; wolfram *in situ*. L. L. F., **M**, XXXVII, 209.
- Malka (Walka), *Cutch* (41 E/2; 23° 35': 69° 1' 30"), quartz reef. A. B. W., **M**, IX, 216 (Pl. v, fig. 2).
- Malla Khel, *Mianwali* (38 P/1; 32° 55' 30": 71° 10'), Jurassic coal seams. R. R. S., **R**, XXXI, 21=Mulla Khel.
- Mallampatti, *Pudukkottai* (58 J/10; 10° 36' 30": 78° 40'), magnetite bed. R. B. F., **R**, XII, 147.
- Mallanhalli, *Hassan* (57 C/8; 13° 10': 76° 22' 30"), Dharwar outlier, old workings for gold. R. B. F., **R**, XXII, 18.
- Mallapan gudda, *Bellary* (48 N/13; 14° 55': 75° 58'), Dharwar rocks. R. B. F., **M**, XXV, 85 (Pl. ii); J. M. M., **R**, XXXIV, 105.
- Mallapur, *Bellary* (57 A/8; 15° 2': 76° 25'), iron smelting. R. B. F., **M**, XXV, 193.
- Mallapur, *Raichur* (56 H/7; 16° 19': 77° 17'), quartz reef. R. B. F., **M**, XII, 68.
- Mulle-Bennur, *Chitaldrug* (48 N/11; 14° 21': 75° 44' 30"), Dharwar quartzites and schists, alluvial gold. R. B. F., **R**, XXI, 45.
- Malmand pass, *Afghanistan* (34 E/1; 31° 56': 65° 3'), formation of gorge. C. L. G., **M**, XVIII, 45.
- Malo Kotal, *Persia* (10 O/7; 29° 29': 51° 23'), Fars and Bakhtiyari series. G. E. P., **M**, XXXIV, pt. 4, 34, 64.
- Malolmatta Pahar, *Nagpur* (55 O/6; 21° 33': 79° 24'), disconformity in Sausar series. L. L. F., **R**, LXV, 103.
- Malot, *Jhelum* (43 D/14; 32° 41': 72° 48'), overstep of Boulder bed on Magnesian sandstone. C. S. M., **R**, XXIV, 22; folding in Saline series. L. L. F., **R**, LXV, 116.
- Malothano, *Alwar* (54 A/3; 27° 27' 30": 76° 15'), folding in Alwar quartzites. A. M. H., **M**, XLV, 54 (fig).
- Malpona, *Goa* (48 I/3; 15° 24': 74° 10' 30"), manganese-ore. L. L. F., **M**, XXXVII, 989.
- Malpur, *Indore* (46 J/12; 22° 9': 74° 34' 30"), alteration of Nimar sandstone by dolerite. P. N. B., **M**, XXI, 58.
- Malsama, *Jeyapore* (65 I/4; 19° 1': 82° 14'), concretionary limonite. T. L. W., **A. R.**, 1900, 175.

- Maltoun, *Saugor* (54 L/11; 24° 18' : 78° 32'), fresh-water limestone. H. B. M., **M**, II, 78.
- Malu, *Chota Udaipur* (46 F/15; 22° 24' 30" : 73° 55'), serpentinous limestone. G. V. H., **R**, LIX, 350, 354; dolerite dyke, 351.
- Maluari hill, *Balaghat* (64 C/5; 21° 55' : 80° 28'), bauxite. C. S. F., **M**, XLIX, 132.
- Malusar, *Satara* (47 G/9; 17° 52' 30" : 73° 41'), manganese-ore. L. L. F., **M**, XXXVII, 662.
- Malvalli, *Mysore* (57 H/3; 12° 23' : 77° 3'), mica. T. H. H., **M**, XXXIV, 68; iron-ore. **R**, XXXIX, 115.
- Malvan, Malwan, *Ratnagiri* (47 H/8; 16° 3' : 79° 28'), raised beach. R. B. F., **M**, XII, 243; manganiferous iron-ore. L. L. F., **M**, XXXVII, 240, 661; arenaceous laterite. C. S. F., **M**, XLIX, 96.
- Malwa Tal, *Naini Tal* (53 O/11; 29° 20' : 79° 39'), origin of lake. V. B., **R**, XI, 178; W. T., **R**, XIII, 171, 175; microgranulitic rock, petrology. C. S. M., **R**, XXIII, 37=Mulwa Tal.
- Mamadpur, *Hooghly* (79 B/2; 22° 41' : 88° 9'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 221.
- Mamail, *Singhbhum* (73 F/5; 22° 45' 30" : 85° 16'), vesicular structure in Dalma trap. J. A. D., **M**, LIV, 76.
- Mamand, *Sibi* (39 C/10; 29° 39' : 68° 42'), sub-recent gravels. R. D. O., **R**, XXV, 24; loess, 26; gypsum, 29.
- Mamaseni (district), *Persia* (10 O/5; 29° 57' : 51° 20'), chert conglomerates, Bakh-tiyari series. G. E. P., **M**, XXXIV, pt. 4, 64.
- Mambat, *Malabar* (58 A/4; 11° 14' 30" : 76° 11'), laterite terrace. P. L., **M**, XXIV, 225 (pl. v, fig. 12).
- Mamdapur, *Belgaum* (47 L/16; 16° 6' 30" : 74° 56'), Intertrappean beds, section. R. B. F., **M**, XII, 194 (fig.).
- Mamdur (Mamandur), *N. Arcot* (57 P/9; 12° 45' : 79° 40' 30"), Rajmahal beds. R. B. F., **R**, XII, 200.
- Mamidipilli, *Vizagapatam* (65 N/6; 18° 30' : 83° 18'), spandite. L. L. F., **M**, XXXVII, 179; kodurite, 251; manganese-ore, 508, 1108.
- Mamlig, *Patiala* (53 E/4; 31° 3' : 77° 2'), Blaini limestone. C. A. M., **R**, X, 206; Chail limestone. G. E. P., **M**, LIII, 92.
- Mamluh, *Khasi Hills* (78 O/12; 25° 15' : 91° 42'), Cretaceous fossils. H. B. M., **M**, VII, 182; relations of Sylhet trap with gneiss, 186.
- Mamon, *Myitkyina* (92 C/6; 25° 35' : 96° 16'), jadeite. A. W. G. B., **R**, XXXVI, 256; alluvial gold. E. H. P., **R**, LXII, 53.
- Mamostong glacier, *Ladakh* (52 E/12; 35° 5' : 77° 35'), movements of snout. K. M., **R**, LXIII, 261 (Pl. vii, 24)=Murgisthang glacier.
- Mamsar range, *Persia* (17 O/13; 29° 55' : 55° 52'), volcanic rocks, U. Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 69.
- Mamudpur, *Burdwan* (73 M/2; 23° 40' 30" : 87° 7' 30"), Raniganj stage, section. W. T. B., **M**, III, 81.
- Mamul, *Chamba* (43 P/14; 32° 30' : 75° 55'), old moraine. C. A. M., **R**, XV, 49.
- Mamuni, *Kotah* (54 G/4; 25° 11' : 77° 6'), bauxite. C. S. F., **M**, XLIX, 101.
- Man, *Pakokku* (84 K/7; 21° 22' : 94° 17'), oil seepages. E. H. P., **M**, XL, 140; Tertiary gastropoda. E. V., **R**, LIV, 244.

- Mana Madura, *Ramnad* (58 K/6; 9° 41' 30": 78° 27'), laterite conglomerate. R. B. F., **M**, XX, 48.
- Manabum, *Lakhimpur* (92 A/2; 27° 36': 96° 10'), coal measures. J. M. M., **R**, XXXI, 190; R. R. S., **M**, XLI, 16.
- Managur, *Warangal* (65 C/13; 17° 57': 80° 49'), Kamthi sandstones. W. T. B., **R**, IV, 109.
- Manak Chok, *Bundi* (45 O/14; 25° 33': 75° 54' 30"), Ganurgarh shales. A. L. C., **R**, LX, 173; kaolin, 192.
- Manal, *Sirmur* (53 F/5; 30° 46': 77° 22'), hornblende-schist. G. E. P., **M**, LIII, 58.
- Manalgadda (Mogal Gad), *Belgaum* (48 I/5; 15° 50': 74° 17'), bauxite. C. S. F., **M**, XLIX, 68.
- Manali, *Kulu* (52 H/3; 32° 15' 30": 77° 11'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 58 (Pl. xiv, fig. 2).
- Manama, *Persian Gulf* (11 J/12; 26° 14': 50° 34' 30"), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 118; sub-recent conglomerate, 122; water-supply, 125.
- Manapad, *Tinnevely* (58 L/3; 8° 22' 30": 78° 3' 30"), sand dunes. R. B. F., **M**, XX, 96.
- Manar, *Ceylon* (58 P/13\*; 8° 57': 79° 55'), Adam's Bridge, formation. J. W., **R**, XXIII, 115.
- Manarkad, *Malabar* (58 B/5; 10° 59': 76° 27' 30"), alluvial gold. P. L., **M**, XXIV, 238.
- Manasbal, *Kashmir* (43 J/11; 34° 15': 74° 40'), Triassic limestone. R. L., **R**, XI, 47; XIV, 24; **M**, XXII, 140.
- Manaturpett, *S. Arcot* (57 P/4; 12° 0' 30": 79° 5' 30"), granitoid gneiss. W. K., **M**, IV, 298.
- Manavalike (Nerankimale), *S. Kanara* (48 P/5; 12° 52': 75° 20'), steatite. F. R. M., **R**, XXII, 63.
- Manaw, *N. Shan States* (93 F/2; 22° 36': 97° 1' 30"), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 143.
- Manbazar, *Manbhum* (73 I/12; 23° 3' 30": 86° 40'), ilmenite. V. B., **M**, XVIII, 107; L. L. F., **R**, LIII, 275, 297; meteorite. J. C. B., **M**, XLIII, 232.
- Man-chi, *Yunnan* (92 L/9; 24° 47': 98° 39'), andesite. J. C. B., **R**, XLIII, 198.
- Man-chin, *Yunnan* (92 K/8; 25° 2' 30": 98° 22' 30"), andesite glass, petrology. R. C. B., **R**, XLIII, 222.
- Mancoopum (Mankuppai), *Salem* (58 I/2; 11° 41' 30": 78° 6'), magnesite. W. K., **M**, IV, 312.
- Mand, *R., Udaipur, C. P.* (64 N/4; 22° 10': 83° 6'), coalfield. W. T. B., **R**, III, 71; V. B., **R**, XV, 112 (Pl. vii); W. K., **R**, XIX, 222; borings. XX, 194; R. R. S., **M**, XLI, 85.
- Mandakpal, *Kashmir* (43 O/1; 33° 59': 75° 0' 30"), Zewan beds. R. L., **R**, XIV, 26; **M**, XXII, 134; R. D. O., **R**, XXXI, 7; H. H. H., **R**, XXXVI, 35; C. S. M., **R**, XXXVII, 309 (Pl. xxxii); XL, 238.
- Mandalangiri, *Garó Hills* (78 K/6; 25° 39' 30"; 90° 29'), earthquake, 1897, fault. R. D. O., **M**, XXIX, 151; F. M. B., **M**, XXXV, 171.

\* Sheet. C/6 Ceylon Topographical Survey, 1 inch=1 mile,

- Mandalay, *Burma* (93 C/1; 21° 59' : 96° 6'), crystalline limestone. G. E. G., A. R., 1898, 53; earthquake, 1897, secondary shocks. R. D. O., M, XXIX, 193; *Burma* earthquakes, 1912. J. C. B., M, XLII, 9, 117; aftershocks, 125-130; Srimangal earthquake, 1918. M. S., M, XLVI, 33.
- Mandalgarh, *Mewar* (45 O/4; 25° 13' : 75° 5'), Alwar quartzites. C. A. H., R, XIV, 290; E. H. P., R, LIX, 94; Vindhyan anticline, 106.
- Mandan, *Alwar* (53 D/8; 28° 6' : 76° 23'), Mandan schists. C. A. H., R, X, 89; A. M. H., M, XLV, 75; slates, 87, 128.
- Mandanna Kach, *Waziristan* (38 L/3; 32° 22' 30" : 70° 3' 30"), Cretaceous beds. M. S., R, LIV, 91.
- Mandaor (Mandawar), *Alwar* (54 A/16; 27° 10' : 76° 51'), Mandan series. A. M. H., M, XLV, 76 (fig.); Ajabgarh series, 83.
- Mandaoria, *Kishangarh* (45 J/14; 26° 37' : 74° 54'), cancrinite. E. V., R, XXXI, 109; molybdenite. T. H. H., R, XXXIX, 268.
- Mandar (Mandhan), *Jaisalmer* (40 I/15; 27° 17' : 70° 53' 30"), fuller's earth. R. D. O., R, XIX, 160.
- Mandasal, *Puri* (73 H/11; 20° 16' : 85° 42'), metamorphic rocks. V. B., R, X, 67.
- Mandata, *Nimar* (55 B/4; 22° 15' : 76° 9'), Vindhyan beds. W. T. B., M, VI, 255 (fig.)=Oonkar Mandatta.
- Mandawar, *Alwar* (54 A/9; 27° 52' : 76° 33'), Alwar series. A. M. H., M, XLV, 39.
- Mandhali, *Dehra Dun* (53 F/13; 30° 50' : 77° 57'), littoral conglomerates. R. D. O., R, XVI, 196; XXI, 136.
- Mandhaora, *Jaipur* (45 M/10; 27° 45' : 75° 35'), inclusions of quartzite in granite. A. M. H., R, LIV, 381.
- Mandi, *Punch* (43 K/5; 33° 48' : 74° 15' 30"), U. Carboniferous-Eocene, section. D. N. W., M, LI, 303.
- Mandi, *Punjab* (53 A/14; 31° 42' 30" : 76° 56'), altered basalt, petrology. C. A. M., R, XV, 162; rock-salt and bituminous marl. E. H. P., M, XL, 370, 442; Kangra earthquake, 1905. C. S. M., M, XXXVIII, 49 (figs. & Pl. xii)=Mundi.
- Mandibisi, *Kalahandi* (65 M/3; 19° 23' : 83° 10'), laterite. C. S. F., M, XLIX, 184.
- Mandkaula, *Gurgaon* (53 H/4; 28° 8' : 77° 11'), Ajabgarh quartzites. A. M. H., M, XLV, 78.
- Mandla, *Alwar* (54 A/14; 27° 35' : 76° 51'), black marble. A. M. H., M, XLV, 126.
- Mandla, *Rawalpindi* (43 G/1; 33° 46' : 73° 10' 30"), sulphurous spring. D. N. W., M, LI, 353.
- Mandlana, *Patiala* (53 D/4; 28° 6' : 76° 5'), building stone. P. N. B., R, XXXIII, 61.
- Mandlesar, *Indore* (46 N/12; 22° 10' 30" : 75° 40'), dolerite, petrology. P. N. B., M, XXI, 54 (Pl. i, fig. 2)=Mundlaisur.
- Mandnaoj (Marnoj), *Jaipur* (54 B/13; 26° 53' 30" : 76° 48'), hematite concretions. A. M. H., R, XLVIII, 199.
- Mando, *Hazaribagh* (73 E/5; 23° 48' : 85° 28'), Talchir beds. T. W. H. H., M, VI, 44.
- Mandpa, *Shahabad* (63 P/10; 24° 44' : 83° 37'), ochre. L. L. F., R, LIII, 294.
- Mandrael, *Karauli* (54 F/3; 26° 18' : 77° 14'), Upper Bhander sandstone. A. M. H., M, XLV, 167.

- Mandri, *Nagpur* (55 O/7; 21° 25' : 79° 24'), rhodonite. L. L. F., **M**, XXXVII, 141; spessartite, 173; manganese-ore, 934 (figs. & Pl. xl, fig. 2).
- Mandsaur (Mandasor), *Gwalior* (45 P/4; 24° 3' 30" : 75° 5'), Delhi shales and quartzites. C. A. H., **R**, XIV, 294=Mundesor.
- Mandvee, *Surat* (46 G/7; 21° 15' : 73° 18'), shelly conglomerate. W. T. B., **M**, VI, 355.
- Mandvi, *Cutch* (41 F/5; 22° 50' : 69° 21'), earthquake, 1819. R. D. O., **M**, XLVI, 108.
- Mandvi Bir, *Nagpur* (55 O/3; 21° 29' : 79° 14'), hollandite. L. L. F., **M**, XXXVII, 88; rhodonite, 141; hematite, 215; manganese-ore, 969.
- Mandya, *Mysore* (57 D/14; 12° 32' : 76° 54'), mica. T. H. H., **M**, XXXIV, 68.
- Manegaon, *Balaghat* (64 C/5; 21° 51' : 80° 15' 30"), manganese-ore. L. L. F., **M**, XXXVII, 720.
- Manegaon, *Chhindwara* (55 J/10; 22° 37' : 78° 42'), boring for coal. H. B. M., **R**, VIII, 68; X, 47; R. R. S., **M**, XLI, 91.
- Manegaon, *E. Khandesh* (55 C/4; 21° 4' : 76° 2'), meteorite. J. C. B., **M**, XLIII, 233.
- Manegaon, *Nagpur* (55 O/7; 21° 25' 30" : 79° 24' 30"), rhodonite-rock. L. L. F., **M**, XXXVII, 139, 144, 644; manganese-ore, 569, 942 (figs.).
- Manehtar, *Punch* (43 K/3; 33° 24' 30" : 74° 6'), Eocene beds. D. N. W., **M**, LI, 261; bauxite, 365.
- Maner R., *Karimnagar* (56 N/11; 18° 25' : 79° 30'), Pakhal slates. W. K., **M**, XVIII, 220.
- Man-eru R., *Nellore* (57 M/16; 15° 5' : 79° 47'), stone implements. R. B. F., **M**, XVI, 91.
- Mang, *Punch* (43 G/9; 33° 48' : 73° 39'), L. Siwalik beds. D. N. W., **M**, LI, 275, 330.
- Mangal Dev, *Jhelum* (43 H/6; 32° 40' 30" : 73° 24'), Salt Pseudomorph beds. E. H. P., **R**, LXIII, 134.
- Mangal Hat, *Santal Parganas* (72 O/16; 25° 4' : 87° 51'), glass-making sands. M. S., **R**, XXXVII, 192; kaolin. XXXVIII, 136.
- Mangaldai, *Darrang* (83 B/3; 26° 26' : 92° 2'), earthquake, 1897. R. D. O., **M**, XXIX, 26; effect on wells, 339.
- Mangali, *Chanda* (55 P/3; 20° 22' : 79° 0'), Estheria beds. W. T. B., **R**, I, 65; T. O., **M**, III, 197=Mangli.
- Mangalpur, *Burdwan* (73 M/2; 23° 37' : 87° 9'), colliery. W. T. B., **M**, III, 86, 89, 158.
- Mangamur, *Guntur* (57 M/15; 15° 30' : 79° 58'), Rajmahal beds, section. R. B. F., **M**, XVI, 58 (fig.).
- Mangapet, *Warangal* (65 B/11; 18° 15' : 80° 31'), alluvial gold. W. K., **M**, XVIII, 199.
- Manga-Pir, *Karachi* (35 P/1; 24° 59' : 67° 2'), hot springs. T. O., **M**, XIX, 110 =Mugger Pir and Pir Mangal.
- Mangawal, *Hoshiarpur* (53 A/2; 31° 37' 30" : 76° 0'), U. Siwalik beds, section. W. T., **R**, XIV, 86.
- Mangdi, *Amjhara* (46 J/15; 22° 29' : 74° 52'), columnar basalt. P. N. B., **M**, XXI, 60.

- Mangela, *Jubbulpore* (64 A/2; 23° 30' 30": 80° 14'), manganiferous hematite. P. N. B., **R**, XXI, 75; analysis. L. L. F., **M**, XXXVII, 810=Mangola.
- Mangeli, *Jubbulpore* (64 A/2; 23° 30' : 80° 14'), pyrolusite, analysis. L. L. F., **M**, XXXVII, 813, 814=Mungeli.
- Mangesar hill, *Mirzapur* (63 P/2; 24° 32' : 83° 5'), thrust-fault. L. L. F., **R**, LXV, 147.
- Mangi, *Sibi* (34 N/7; 30° 21' : 67° 29'), anticline in Eocene limestone. C. L. G., **R**, XXVI, 116; Jurassic-Eocene beds. XXIX, 8.
- Mangial, *Hazara* (43 F/6; 34° 40' 30" : 73° 29' 30"), Panjal traps. D. N. W., **R**, LXV, 210.
- Mangla, *Jammu* (43 G/12; 33° 7' 30" : 73° 39'), landslips. H. H. H., **R**, XLVII, 20; L. L. F., **R**, LXV, 43; Himalayan syntaxis. D. N. W., **M**, LI, 198.
- Manglang, *N. Shan States* (93 F/5; 22° 58' : 97° 18'), outlier, Namhsim sandstone, T. D. L., **M**, XXXIX, pt. 2, 137.
- Mangli, *Chanda* (55 P/3; 20° 22' : 79° 0'), Estheria beds. W. T. B., **M**, IX, 326, 329; T. W. H. H., **M**, XIII, 71; O. F., **R**, X, 26=Mangali.
- Manglour, *Kulu* (53 E/6; 31° 40' : 77° 18'), Krol limestone. H. B. M., **M**, III, pt. 2, 57.
- Mangola, *Jubbulpore* (64 A/2; 23° 30' 30" : 80° 14'), micaceous iron-ore. F. R. M., **R**, XVI, 101=Mangela.
- Mangor, *Gwalior* (54 J/4; 26° 5' 30" : 78° 3'), iron-ore. C. A. H., **R**, III, 42.
- Mangphu, Mangpmu, *Darjeeling* (78 B/5; 26° 58' : 88° 24'), hot spring. F. R. M., **M**, XI, 8; copper mine, 76; T. O., **M**, XIX, 131.
- Mangrol, *Kathiawar* (41 K/4; 21° 7' : 70° 7'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 111.
- Mangrotha, Mangrotah, *D. G. Khan* (39 J/10; 30° 43' : 70° 35'), sulphur mine. W. T. B., **M**, XX, 228, 230; *Conulites*. L. M. D., **R**, LIX, 246.
- Mangrup, *Mewar* (45 K/12; 25° 14' : 74° 42'), Delhi-Aravalli unconformity. C. A. H., **R**, XIV, 295.
- Mangthar, *Rewah* (64 E/3; 23° 18' : 81° 3'), coal seam. T. W. H. H., **M**, XXI, 171, 243.
- Mangtsa, *Tibet* (77 H/11; 28° 21' : 89° 32'), Jurassic fossils. H. H. H., **R**, XXXII, 166; spring. **M**, XXXVI, 130; glacial deposits, 136; Jurassic fossils, 158.
- Manguohar, *Kalat* (34 K/11; 29° 21' : 66° 37'), Jurassic limestone. E. V., **R**, XXXVIII, 193.
- Mangwa, *Darjeeling* (78 A/8; 27° 3' : 88° 24'), pyrites with copper. F. R. M., **M**, XI, 74.
- Manharpur, *Singbhum* (73 F/3; 22° 22' : 85° 12'), sericite-schists. E. H. P., **R**, LXII, 97, 98.
- Manhe Pat, *Ranchi* (73 A/11; 23° 24' : 84° 31'), laterite. C. S. F., **M**, XLIX, 173.
- Man-hku, *Yunnan* (93 M/9; 23° 54' : 99° 41'), Plateau limestone. J. C. B., **R**, LIV, 301.
- Man-Hpai, *N. Shan States* (93 J/4; 22° 14' 30" : 98° 7' 30"), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 82; Permo-Carboniferous, 262.
- Man-hpeklu, *N. Shan States* (93 F/2; 22° 40' : 97° 15'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 145.



- Manhpwi, *N. Shan States* (93 F/9; 22° 51' : 97° 35' 30'), carbonaceous shale bands in Plateau limestone. T. D. L., **M**, XXXIX, pt. 2, 255.
- Mani, *Spiti* (52 L/8; 32° 1' : 78° 15'), *Monotis salinaria* beds. A. K., A. R., 1900, 222; Permian conglomerate. H. H. H., **M**, XXXVI, 52; U. Trias-Jurassic, section, 83, 85 (Pl. iii, fig. 2); Quartzite series, U. Triassic. C. D., **M**, XXXVI, 299 (fig.).
- Mani R., *Surguja* (64 I/16; 23° 7' : 82° 56'), coal seams. R. R. S., **M**, XLI, 82.
- Maniand, *Rawalpindi* (43 G/6; 33° 36' 30" : 73° 25'), fault. D. N. W., **M**, LI, 355.
- Maniari R., *Bilaspur* (64 F/16; 22° 13' : 81° 49'), reservoir site. E. H. P., **R**, LIX, 26.
- Manichauk, *Gonda* (63 I/2; 27° 37' : 82° 5'), geodetic station. R. D. O., **M**, XLII, 213.
- Manikapura, *Mysore* (57 D/11; 12° 18' : 76° 31'), mica. T. H. H., **M**, XXXIV, 68.
- Manikarn, *Kulu* (52 H/8; 32° 2' : 77° 21'), lead-ore. F. R. M., **M**, V, 165; mica-ceous iron-ore, 168; hot springs. T. O., **M**, XIX, 121; T. H. H., **R**, XXXIX, 264; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 63.
- Manikeri, *Belgaum* (47 P/4; 16° 9' 30" : 75° 4'), L. Kaladgi beds. R. B. F., **M**, XII, 113=Munnikerri.
- Manikeswaram, *Guntur* (57 M/13; 15° 45' : 79° 58'), magnetite bed. R. B. F., **M**, XVI, 20.
- Manikganj, *Dacca* (79 I/1; 23° 53' : 90° 0'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Manikmara R., *Surguja* (64 I/11; 23° 26' : 82° 45'), coal seams. T. W. H. H., **M**, XXI, 205; R. R. S., **M**, XLI, 80.
- Maniknath, *Tehri* (53 J/11; 30° 22' : 78° 40'), quartzites and limestones. R. D. O., **R**, XVI, 163; C. S. M., **R**, XX, 32.
- Manikpur, *Banda* (63 G/4; 25° 4' : 81° 6'), hot spring. T. O., **M**, XIX, 137.
- Manimundar, *Hazaribagh* (72 H/14; 24° 37' : 85° 49'), lepidolite and green tourmaline. F. R. M., **R**, VII, 43; T. H. H., **M**, XXXIV, 51.
- Manipur, *Assam* (83 H/13; 24° 49' : 93° 57'), Cachar earthquake, 1869. T. O., **M**, XIX, 20; earthquake, 1897. R. D. O., **M**, XXIX, 28.
- Manirang pass, *Spiti* (53 I/5; 31° 58' : 78° 23'), glacial lake. C. L. G., **M**, XXIII, 38 (fig.). Rhætic beds, 222 (fig.); U. Trias. H. H. H., **M**, XXXVI, 83 (Pl. xiii); Spiti shales, 85.
- Manjagaranei, *Chingleput* (66 C/3; 13° 16' : 80° 7'), Cuddalore grits passing into laterite. R. B. F., **M**, X, 35, 60; stone implements, 48.
- Manjarabad, *Hassan* (48 P/13; 12° 55' : 75° 45' 30"), mica. T. H. H., **M**, XXXIV, 68.
- Manjat, *Patiala* (53 E/4; 31° 6' : 77° 3'), Chail series. G. E. P., **M**, LIII, 93.
- Manjere, *Chamba* (52 D/2; 32° 42' 30" : 76° 4'), Carbo-Triassic limestone. C. A. M., **R**, XIV, 306.
- Manjeri, *Malabar* (58 A/4; 11° 7' : 76° 7'), dyke rocks. P. L., **M**, XXIV, 215.
- Manjhar, *Palamaru* (73 A/9; 23° 49' : 84° 31'), Barakar stage, section. V. B., **M**, XV, 70.
- Manjia hill, *Bankura* (73 M/2; 23° 33' : 87° 8'), Gondwana boundary fault. W. T. B., **M**, I, 255.
- Manjira, *Rewah* (64 E/15; 23° 16' : 81° 49'), coal seam. T. W. H. H., **M**, XXI, 181, 243.

- Manjuri (Majri), *Palamanu* (84 M/13; 23° 48' 30" : 83° 54'), stilbite veins in gneiss. V. B., **M**, XV, 36.
- Mankachar, *Goalpara* (78 G/14; 25° 32' : 89° 52'), earthquake, 1897, floods. R. D. O., **M**, XXXIX, 161, 261.
- Man-kang, *N. Shan States* (93 F/13; 22° 55' : 97° 57'), *Fusulina* limestone. T. D. L., **M**, XXXIX, pt. 2, 258.
- Mankiala, *Rawalpindi* (43 G/3; 33° 27' 30" : 73° 15'), Siwalik conglomerate. D. N. W., **M**, LI, 360.
- Mankidih, *Ranchi* (73 F/9; 22° 59' : 85° 36'), tuff-breccia. J. A. D., **M**, LIV, 71 (Pls. viii, fig. 2 & xiii, fig. 2).
- Man-Kio, *N. Shan States* (93 J/1; 22° 56' 30" : 98° 13' 30"), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 287.
- Mankshang pass, *Almora* (62 B/11; 30° 26' : 80° 42'), Carboniferous limestone and glacier. C. L. G., **M**, XXIII, 185 (Pls. xxi-xxii a).
- Mankughati, *Ohhindwara* (55 J/8; 22° 6' 30" : 78° 29'), alteration of amphibolite. C. S. M., **R**, XLV, 129.
- Mankui, *Chota Udaipur* (46 J/4; 22° 0' 30" : 74° 1'), agglomerates, Lameta series. P. N. B., **M**, XXI, 46.
- Mankulam, *Madura* (58 J/4; 10° 2' : 78° 15'), jeffersonite (?). L. L. F., **M**, XXXVII, 139.
- Man-kun, *N. Shan States* (93 J/2; 22° 31' : 98° 11'), clay dyke in limestone. T. D. L., **M**, XXXIX, pt. 2, 314 (fig.), 376.
- Man-La, *Yunnan* (102 A/12; 23° 14' : 100° 33'), Permo-Triassic beds. J. C. B., **R**, LIV, 312.
- Man-loi, *N. Shan States* (93 B/15; 22° 28' : 96° 57'), "Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 91.
- Manlong-Mansang, *N. Shan States* (93 F/9; 22° 47' : 97° 32'), waterfalls. T. D. L., **M**, XXXIX, pt. 2, 305, 344 (frontispiece).
- Manmad, *Nasik* (46 L/7; 20° 15' : 74° 26'), dam-sites. E. H. P., **R**, LVI, 25; LIX, 57.
- Manmaklang, *N. Shan States* (93 F/9; 22° 50' 30" : 97° 37'), iron-ore. E. L. G., **R**, LIV, 434; J. C. B., **R**, LXI, 182.
- Manmani, *Ranchi* (73 F/1; 22° 59' 30" : 85° 5'), epidiorite included in granite. J. A. D., **M**, LIV, 127.
- Manmaw, *S. Shan States* (93 F/15; 22° 16' 30" : 97° 54' 30"), *Fusulina* limestone. T. D. L., **M**, XXXIX, pt. 2, 261.
- Manna, *Myitkyina* (92 C/6; 25° 37' : 96° 16'), alluvial gold. E. H. P., **R**, LXII, 53; jadeite, 56.
- Manna, *N. Shan States* (93 B/15; 22° 28' : 96° 49' 30"), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 134, 142.
- Man-Namluk, *N. Shan States* (93 J/5; 22° 55' : 98° 27'), alluvial gold. T. D. L., **M**, XXXIX, pt. 2, 373.
- Man-ngai, *N. Shan States* (93 F/5; 22° 57' : 97° 20'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 92.
- Manohargarh, *Savantvadi* (47 H/16; 16° 3' : 73° 58'), escarpment, Deccan trap. R. B. F., **M**, XII, 172 (Pl. vii).
- Manoharpur, *Jaipur* (45 M/15; 27° 18' : 75° 57'), Alwar quartzites. A. M. H., **R**, LIV, 363.

- Manoi, *N. Shan States* (93 E/8; 23° 1': 97° 18'), Namhsim sandstones, boundary. J. C. B., **R**, XLVIII, 138.
- Manoli, *Belgaum* (48 M/1; 15° 51': 75° 7'), L. Kaladgi schists. R. B. F., **M**, XII, 111.
- Manora, *Karachi* (35 L/13; 24° 48': 66° 58'), Manchhar beds. W. T. B., **M**, XVII, 186.
- Manoron, *Mergui* (96 M/2; 11° 38': 99° 4'), tin-ore. T. H. H., **R**, XXXVII, 40.
- Manpara, *Idar* (46 A/13; 23° 47': 72° 51'), Idar granite. C. S. M., **M**, XLIV, 117.
- Man-Pat, *N. Shan States* (93 E/4; 23° 11' 30": 97° 11' 30"), pyrites. H. H. H., **R**, XLVII, 24.
- Man-paw, *N. Shan States* (93 F/16; 22° 1': 97° 46'), galena. L. L. F., **R**, XXXIII, 234.
- Man-ping, *N. Shan States* (93 F/5; 22° 54': 97° 19'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 92.
- Man-pung, *N. Shan States* (93 F/15; 22° 18' 30": 97° 59'), Fusulina limestone. T. D. L., **M**, XXXIX, pt. 2, 262.
- Manpur, *Singbhum* (73 J/6; 22° 36': 86° 16'), asbestos. E. H. P., **R**, LXIII, 29.
- Mansahra, *Hazara* (43 F/3; 34° 20': 73° 12'), inclusions of schist in gneiss. A. B. W., **R**, XII, 118=Mansehrub.
- Mansak, *Korea* (64 I/8; 23° 13' 30": 82° 28' 30"), Archæan inlier. L. L. F., **M**, XLI, 162.
- Man-Sak, *N. Shan States* (93 E/7; 23° 26' 30"; 97° 21'), seriticised granite. E. H. P., **R**, LXIII, 92.
- Mansak, *N. Shan States* (93 E/8; 23° 11' 30": 97° 19'), Pangyun beds. H. H. H., **R**, XLVII, 33.
- Man-Sak-ka, *N. Shan States* (93 E/7; 23° 22' 30": 97° 24' 30"), pyrites. E. H. P., **R**, LXIII, 48.
- Mansakra, *Jubbulpore* (64 A/3; 23° 30': 80° 7'), manganes-ore. L. L. F., **M**, XXXVII, 461, 813, 822=Mansukra.
- Man-Sam, *N. Shan States* (93 F/5; 22° 56': 97° 25' 30"), outlier, Rhætic beds. T. D. L., **M**, XXXIX, pt. 2, 286.
- Man-sam-lai, *N. Shan States* (93 F/12; 22° 7': 97° 34'), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 96.
- Man-sang, *N. Shan States* (93 F/15; 22° 26': 97° 55' 30"), coalfield. R. R. S., **R**, XXXIII, 144 (fig. & Pl. x); **M**, XLI, 71; T. D. L., **M**, XXXIX, pt. 2, 312; igneous rocks. **R**, XXXVI, 40.
- Mansar, *Nagpur* (55 O/7; 21° 24': 79° 16'), hausmannite. L. L. F., **M**, XXXVII, 41; psilomelane, 112, 114; rhodonite, 141; manganese-gneiss, 292; gondite, 344, 355; dendrites, 397; manganese-ore, 328, 392, 878, 891 (figs. & Pls. xxxiii-xxxvi).
- Man-Se, *N. Shan States* (93 F/13; 22° 48': 97° 54'), pottery clay. T. D. L., **M**, XXXIX, pt. 2, 312; Pleistocene fossils, 316=Manze.
- Mansehrub, *Hazara* (43 F/3; 34° 20': 73° 12'), mica-schist, petrology. C. S. M., **M**, XXVI, 52; gneissose granite, 69; dolerite, 76 (Pl. i, fig. 3)=Mansahra.
- Man-se-le, *N. Shan States* (93 J/2; 22° 40': 98° 14'), coalfield. R. R. S., **R**, XXXIII, 152 (fig. & Pl. x); **M**, XLI, 71; T. D. L., **M**, XXXIX, pt. 2, 314.
- Man-shio, *N. Shan States* (93 F/16; 22° 6': 97° 48' 30"), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 82.

- Mansukra, *Jubbulpore* (64 A/3; 23° 30': 80° 7'), manganese-ore. P. N. B., **R**, XXI, 85; XXII, 223=Mansakra.
- Mansuriyah, *Iraq* (2 B/16; 34° 3': 44° 58'), anticline, Kurd series. E. H. P., **M**, XLVIII, 64 (Pl. x).
- Man-tang, *N. Shan States* (93 F/2; 22° 41': 97° 11' 30"), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 138.
- Mantha, *Shwebo* (84 N/13; 22° 54': 95° 58'), fossil resin. F. N., **R**, XXVI, 39; O. H., **R**, XXVI, 64.
- Manton (Mawton), *Mergui* (95 L/16; 12° 7': 98° 56'), carbonaceous shale. R. R. S., **M**, XLI, 62=Mar-ton.
- Mantur, *Mudhol* (47 P/7; 16° 23': 75° 23'), L. Kaladgi beds, section. R. B. F., **M**, XII, 86.
- Manunda R., *Darjeeling* (78 B/5; 26° 48': 88° 24'), copper mine. T. Taylor, **M**, XI, 94=Mahanaddi R.
- Manwe, *Myitkyna* (92 C/11; 25° 25': 96° 34'), ruby gravels. A. W. G. B., **R**, XXXVI, 164.
- Man-wing, *N. Shan States* (93 F/5; 22° 55': 97° 19' 30"), outlier, Silurian. T. D. L., **M**, XXXIX, pt. 2, 137.
- Manzai, *Waziristan* (38 L/3; 32° 15': 70° 15'), water-supply. E. H. P., **R**, LVIII, 35.
- Manzakai, *Quetta-Pishin* (34 N/3; 30° 27': 67° 4'), Eocene-Miocene beds. C. L. G., **M**, XVIII, 20 (Pl. ii, fig. 1).
- Manze, *N. Shan States* (93 F/13; 22° 48': 97° 54'), coalfield. F. N., **R**, XXIV, 116=Man-Se.
- Maobelarkar (Mawbeh), *Khasi Hills* (78 O/15; 25° 24': 91° 45'), coalfield. H. B. M., **M**, VII, 174; T. D. L., **R**, XXIII, 123 (Pl. xix); R. R. S., **M**, XLI, 26=Mawbelurkar.
- Maoghun, *Rewah* (63 L/11; 24° 30': 82° 38'), quartz-calcite rock, petrology. E. V., **M**, XXXI, 90.
- Maoli, *Rewah* (63 L/4; 24° 11': 82° 5' 30"), Barakar beds. R. D. O., **M**, XXXI, 139.
- Maolong, *Khasi Hills* (78 O/12; 25° 13': 91° 42'), coalfield. R. R. S., **M**, XLI, 26.
- Maonda, *Jaipur* (45 M/13; 27° 49': 75° 48' 30"), hornstone, Ajabgarh series. A. M. H., **R**, LIV, 374; marble, 392.
- Mapphlang, *Khasi Hills* (78 O/15; 25° 27': 91° 45' 30"), Shillong quartzites. H. B. M., **M**, VII, 198; earthquake, 1897, change of level. R. D. O., **M**, XXIX, 157, 271; aftershocks. XXX, 22, 52, 60=Moflong and Mowphlang.
- Maopo, *Spiti* (52 H/16; 32° 3': 77° 56'), Cambrian, section. H. H. H., **M**, XXXVI, 14.
- Maoreng (Mawreng), *Khasi Hills* (78 O/15; 25° 29': 91° 47' 30"), Khasi trap, relations with granite. H. B. M., **M**, VII, 206.
- Maosandram, *Khasi Hills* (78 O/11; 25° 18': 91° 35'), coalfield. T. D. L., **R**, XXIII, 122 (Pl. xviii); R. R. S., **M**, XLI, 27=Mawsynram.
- Maosmai, *Khasi Hills* (78 O/12; 25° 15': 91° 44'), Cretaceous fossils. H. B. M., **M**, VII, 181; earthquake, 1897, overthrow of monoliths. T. D. L., **M**, XXIX, 273=Mawsmi.
- Mar, *Bikaner* (45 A/13; 27° 52': 72° 56'), fuller's earth. T. D. L., **R**, XXX, 124=Madh.

- Mar Shillong, *Khasi Hills* (78 O/7; 25° 23' 30": 91° 28' 30"), granite, relations with gneiss. R. W. P., R, LV, 156.
- Marah, *Punch* (43 K/6; 33° 38' 30": 74° 22'), lava flows, Dogra Slate series. D. N. W., M, LI, 230, 310.
- Marai, *Rewah* (63 H/4; 24° 7': 81° 14'), basal beds, L. Vindhyan. R. D. O., M, XXXI, 13, 53, 110; Red Shale series, 118=Murye.
- Maraia, *Panna* (63 D/2; 24° 42': 80° 5'), diamond workings. E. V., R, XXXIII, 286.
- Maraich, *Rewah* (63 L/4; 24° 10' 30": 82° 3'), Gondwana boundary. R. D. O., M, XXXI, 139 (fig.).
- Maraichi, *Sirohi* (45 D/6; 24° 31': 72° 27' 30"), marble. E. H. P., R, LXI, 28.
- Maramoko, *Hazaribagh* (72 H/10; 24° 34': 85° 40'), dome-gneiss. T. H. H., M, XXXIV, 47.
- Maramsilli, *Raipur* (64 H/10; 20° 32' 30"; 81° 40'), reservoir site. E. H. P., R, LIII, 13.
- Maranggundui, *Singhbhum* (73 F/5; 22° 48': 85° 16'), biotite-schist. J. A. D., M, LIV, 56.
- Maraoli, *Rewah* (63 L/6; 24° 33' 30": 82° 18'), L-U. Vindhyan junction. P. N. D., R, XXIX, 78.
- Maravuttoo, Maravatur, *Trichinopoly* (58 I/16; 11° 12' 30": 78° 57'), Rajmahal plant beds. H. F. B., M, IV, 46, 49, 90; R. B. F., R, XI, 251, 258; coral reef limestone. H. F. B., M, IV, 58; J. W., R, XXIII, 119; Cretaceous sponges. R. B. F., R, XII, 159.
- Marbal pass, *Kashmir* (43 O/6; 33° 30' 30": 75° 28'), Permo-Carboniferous fossils. F. S., M, V, 350; R. L., R, XI, 57; M, XXII, 138.
- Marble Rocks, *Jubbulpore* (55 M/16; 23° 7': 79° 48'), dolomite. J. G. M., M, II, 136 (figs.); analysis. F. R. M., R, XVI, 113; steatite. XXII, 64; L. L. F., R, L, 296; formation of gorge. E. V., R, XXXIII, 41.
- Marchauk pass, *Garhwal* (53 N/13; 30° 50': 79° 49'), Silurian-Carboniferous beds, section. C. L. G., M, XXIII, 107, 113 (Pl. iii, fig. 2).
- Mardanpur, *Betul* (55 F/16; 22° 14': 77° 56' 30"), coal seams. H. B. M., R, VIII, 79; O. F., R, XII, 79=Murdanpur.
- Mardowal, Mardwal, *Shahpur* (43 D/2; 32° 36' 30": 72° 40'), oil seepages. A. B. W., M, XIV, 202; E. H. P., M, XL, 437 (Pl. lxxxviii).
- Maree, *Hazara* (43 G/5; 33° 58': 73° 18'), Trias-Eocene beds. C. S. M., M, XXVI, 201.
- Mareg, *Kashmir* (43 O/9; 33° 55': 75° 31' 30"), ancient moraine. R. L., R, XIV, 50.
- Maren Jum, *Hukawng* (92 F/3; 26° 25': 97° 3'), brine spring. L. L. F., R, LXV, 63.
- Mareog, *Sirmur* (53 F/1; 30° 52' 30": 77° 13'), Infra-Krol beds in contact with Simla slates. G. E. P., M, LIII, 12.
- Margala pass, *Rawalpindi* (43 C/14; 33° 42': 72° 49'), Jurassic fossils. A. B. W., R, X, 129; Jurassic-Eocene, section, C. S. M., M, XXVI, 215 (fig.); Giurnal beds. D. N. W., M, LI, 256=Margulla pass.
- Margan pass, *Kashmir* (43 O/6; 33° 45': 75° 30'), Panjal slates and sandstones. R. L., R, XI, 50; M, XXII, 233; Silurian fossils. F. C. R., R, XLII, 18.

- Margarh, *Rewah* (63 H/4; 24° 2': 81° 10'), basal beds, L. Vindhyan. R. D. O., **M**, XXXI, 110.
- Margherita, *Lakhimpur* (83 M/11; 27° 17': 95° 40'), coal seam. J. M. M., **R**, XXXI, 189; fossil leaves. A. C. S., **R**, XLII, 93 (Pls. i, ii).
- Margonhalli, *Hasan* (57 D/2; 12° 43': 76° 13'), mica. T. H. H., **M**, XXXIV, 68.
- Margooty (Marugutti), *Kurnool* (56 L/8; 16° 3' 30": 78° 23'), Cheyair beds. W. K., **M**, VIII, 170.
- Margottee R., *Manbhumi* (73 I/6; 23° 43': 86° 27'), Talchir beds, section. T. W. H. H., **M**, V, 234; Barakar beds, 248.
- Margulla pass, *Rawalpindi* (43 C/14; 33° 42': 72° 49'), Jurassic-Eocene beds, fossils. A. B. W., **R**, VI, 62=Margala pass.
- Margund, *Kashmir* (43 J/15; 34° 15': 74° 56'), biotite-granite. C. S. M., **R**, XLI, 139; XLV, 135.
- Marhasan, *Jubbulpore* (55 M/15; 23° 21': 80° 0'), hematite-quartzite. L. L. F., **M**, XXXVII, 806, 833=Murhasan.
- Mari, *Attock* (43 C/2; 33° 31': 72° 0' 30"), dome in U. Murree beds. H. M. L., **R**, LXIII, 279 (fig.).
- Mari, *Mianwali* (38 P/9; 32° 57' 30": 71° 35'), rock-salt. A. B. W., **M**, XIV, 267 (Pl. xxx, fig. 53); bi-pyramidal quartz crystals. T. H. H., **R**, XXIV, 231; oil concession. E. H. P., **M**, XL, 409.
- Mari, *Rawalpindi* (43 G/5; 33° 54': 73° 23'), geology of neighbourhood. A. B. W., **R**, VII, 64 (Pls. ii, iii)=Murree.
- Mariaras, *Rewah* (64 E/12; 23° 8' 30": 81° 39'), coal seam. T. W. H. H., **M**, XXI, 243.
- Maribata, *Kalahandi* (65 M/3; 19° 15': 83° 7' 30"), laterite. C. S. F., **M**, XLIX, 184.
- Marikanave (Vanivalasa Sagara), *Chitaldrug* (57 C/5; 13° 50': 76° 27'), dam-site. T. H. H., **A. R.**, 1899, 36.
- Marjatpur, *Rewah* (63 H/8; 24° 15': 81° 16'), L. Vindhyan porcellanites. P. N. D., **M**, XXXI, 143.
- Marka, Markha R., *Ladakh* (52 G/5; 33° 56': 77° 19'), Palaeozoic rocks. F. S., **M**, V, 343; Tertiary traps. R. L., **R**, XIII, 41; alluvial gold, 49; Carboniferous beds. **M**, XXII, 166; Panjal rocks, 255; peridotite, petrology. C. A. M., **R**, XIX, 117; **M**, XXXI, 311.
- Markhunda, *Chanda* (56 M/13; 19° 59' 30": 79° 52'), Gondwana sandstone (?). H. H. H., **R**, XLI, 81.
- Markunda R., *Sirmur* (53 F/6; 30° 31': 77° 20'), Siwalik-Nahan unconformity. H. B. M., **M**, III, pt. 2, 13, 107 (Pl. i); W. T., **R**, XIV, 69.
- Markundi, *Mirzapur* (63 P/2; 24° 36': 83° 4'), L. Vindhyan beds. R. D. O., **M**, XXXI, 16, 18, 165; sandstone dykes. **A. R.**, 1899, 42; **M**, XXXI, 167 (Pl. ii); L. L. F., **R**, LXV, 147.
- Mar-Mul, *Afghanistan* (32 P/6; 36° 33': 67° 18'), Red Grit series. C. L. G., **R**, XX, 20.
- Maroth, *Jaipur* (45 M/4; 27° 6': 75° 5'), basal beds, Delhi series. C. A. H., **R**, XIV, 297.
- Marpanmudi, *Nilgiri* (58 A/7; 11° 30': 76° 22'), charnockite. H. H. H., **M**, XXXIII, pt. 2, 12, 13; Dharwar schist, 14, 15.

- Marpo (Harpo) La, *Ladakh* (43 N/10; 34° 32': 75° 39'), serpentine. R. L., R, XIV, 18.
- Marrobi, *Waziristan* (38 H/14; 32° 36' 30": 69° 52'), iron slags. M. S., R, LIV, 98.
- Martaban, *Thaton* (94 H/10; 16° 31' 30": 97° 37'), fossiliferous beds, Permian. T. D. L., R, XL, 108; G. C., R, LIV, 343.
- Martoli, *Almora* (62 B/3; 30° 21': 80° 12'), *Griesbachites*. A. K., A. R., 1901, 27.
- Marton (Mawton), *Mergui* (95 L/16; 12° 7': 98° 56'), carbonaceous shales. P. N. B., R, XXVI, 151; tin-ore, 163=Manton.
- Maru (Yurod), *Kishtwar* (43 O/10; 33° 40': 75° 43'), gneiss and mica-schists. R. L., R, XI, 51.
- Marudgi, *Bijapur* (47 P/15; 16° 23' 30": 75° 48' 30"), laminated quartz reef. R. B. F., M, XII, 67.
- Marulia (Murulia), *Manbhūm* (73 I/14; 23° 36' 30": 86° 50' 30"), anticline and fault in Ironstone Shales. W. T. B., M, III, 120 (fig.).
- Marumvari (Maranodai), *S. Arcot* (58 M/5; 11° 46': 79° 22'), epidote-gneiss. W. K., M, IV, 304.
- Marun (Mudun), *Jammu* (43 P/10; 32° 40': 75° 42'), nummulitic limestone. H. B. M., R, IX, 52.
- Marur, *Chhindwara* (55 K/6; 21° 37': 78° 26'), Deccan trap dyke. E. H. P., R, LX, 93.
- Marur, *Coimbatore* (58 E/6; 11° 41': 77° 19'), auriferous reef. H. H. H., M, XXXIII, pt. 2, 55.
- Marv Dasht, *Persia* (17 C/N. E.; 29° 52': 52° 45'), hippuritic limestone. G. E. P., M, XXXIV, pt. 4, 14, 75.
- Marwar, *Rewah* (63 H/4; 24° 11' 30": 81° 1'), concretions in Rohtas limestone. P. N. D., M, XXXI, 153.
- Marwara (Marora), *Garhwal* (53 N/4; 30° 2' 30": 79° 7'), schist-gneissose granite contact. C. S. M., R, XX, 141; devitrified rhyolite, petrology, 165.
- Marwas, *Rewah* (63 H/16; 24° 7': 81° 47'), Raniganj beds. T. W. H. H., R, XIV, 128.
- Masan R., *Surguja* (64 M/3; 23° 23': 83° 3'), coal seams. V. B., R, VI, 36; analysis, 39; R. R. S., M, XLI, 81.
- Masania, *Banswara* (46 I/5; 23° 49': 74° 16'), Aravalli conglomerate. T. D. L., R, XL, 117.
- Masavalasa, *Vizagapatam* (65 J/16; 18° 12': 82° 54'), sapphirine. H. C., R, LXIII, 446.
- Masemik La, *Ladakh* (52 J/12; 34° 6': 78° 37'), granitoid gneiss and Panjal rocks. R. L., R, XIII, 33; M, XXII, 259, 323.
- Mashalak range, *Quetta-Pishin* (34 J/16; 30° 14': 66° 45'), Siwalik beds. R. D. O., R, XXV, 36.
- Mashe Daru, *Hukawng* (92 B/11; 26° 24': 96° 36'), alluvial gold. L. L. F., R, LXV, 48.
- Mashobra, *Simla* (53 E/4; 31° 8': 77° 14'), white quartzite, Jaunsar series. G. E. P., M, LIII, 118.
- Masi, *Baraich* (63 E/6; 27° 38': 81° 23'), geodetic station. R. D. O., M, XLII, 213.

- Masimpur, *Cachar* (83 D/13; 24° 52': 92° 46'), oil seepages. E. H. P., **M**, XL, 310.
- Maskat, *Oman* (26 I/10; 23° 38': 58° 35'), Metamorphic and Eocene rocks. W. T. B., **R**, V, 75=Muscat.
- Maski, *Raichur* (57 A/9; 15° 57': 76° 39'), schistose band in gneiss. R. B. F., **M**, XII, 41, 47; Dharwar band. **R**, XXII, 34.
- Maskutan, *Persia* (25 N/13; 26° 51': 59° 49'), altered diorites. G. H. T., **R**, LIII, 55.
- Masnodih, *Hazaribagh* (72 H/11; 24° 29' 30": 85° 44'), mica mining. H. H. H., **R**, L, 17; LI, 15.
- Masongchungdong, *Tibet* (78 E/2; 27° 33': 89° 8'), Triassic beds (?). H. H. H., **R**, XXXII, 162.
- Massandim, *Oman* (25 B/7; 26° 18': 56° 24'), Trias and Jurassic limestone. W. T. B., **R**, V, 75; G. E. P., **M**, XLVIII, pt. 2, 13, 21.
- Massavaram, *Nellore* (57 M/16; 15° 7' 30": 79° 54'), green and purple quartzite. R. B. F., **M**, XVI, 22.
- Mastaku hill, *Persia* (25 A/1; 27° 46': 56° 9'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 109.
- Mastan Dhara, *Punch* (43 K/6; 33° 36': 74° 20'), Panjal trap, inlier. D. N. W., **M**, LI, 312.
- Masti, *Kolar* (57 H/13; 12° 52': 78° 0'), columbite. L. L. F., **M**, XXXVII, 204, 1119.
- Mastuj, *Chitral* (42 D/11; 36° 17': 72° 31'), metamorphic rocks. H. H. H., **R**, XLV, 289; E. H. P., **R**, LVI, 45.
- Mastung, *Kalat* (34 K/13; 29° 48': 66° 51'), boring for water. T. D. L., **R**, XL, 102.
- Masuda, *Merwara* (45 J/12; 26° 6': 74° 30' 30"), basal beds, Delhi system. E. H. P., **R**, LVIII, 67.
- Masulipatam, *Kistna* (65 H/4; 16° 11': 81° 8'), sub-fossil shells. R. B. F., **M**, XVI, 94; sand dunes, 100; Cutch earthquake, 1819. R. D. O., **M**, XLVI, 115.
- Masumzup, *Hukawng* (92 B/14; 26° 31': 96° 59'), alluvial gold. L. L. F., **R**, LXV, 49.
- Masuri, *Dehra Dun* (53 J/3; 30° 27': 78° 4'), Krol limestone. H. B. M., **M**, III, pt. 2, 66=Mussoorie and Musuri.
- Mat, *Ratnagiri* (47 H/6; 16° 37': 73° 29'), hot spring. T. O., **M**, XIX, 105.
- Matagondapalli, *Salem* (57 H/10; 12° 37': 77° 44'), auriferous quartz (?). E. H. P., **R**, LXI, 56.
- Mataian, *Ladakh* (43 N/11; 34° 22': 75° 36'), Carboniferous and Triassic beds. R. L., **R**, XII, 18; **M**, XXII, 147.
- Ma-t'ai-ts'un, *Yunnan* (102 A/1; 23° 48': 100° 14' 30"), phyllites and marble. J. C. B., **R**, LIV, 306.
- Matak, *Afghanistan* (38 E/4; 35° 7': 69° 13'), pseudo-conglomeratic gneiss. H. H. H., **M**, XXXIX, 47.
- Matau Jum, *Hukawng* (92 F/4; 26° 4': 97° 1'), brine spring. L. L. F., **R**, LXV, 63.
- Matepenai (Karali) hill, *Chota Udaipur* (46 F/16; 22° 10': 73° 51' 30"), volcanic focus. W. T. B., **M**, VI, 221, 333=Matepenai hill.



- Matapolliam, *Nilgiri* (58 A/15; 11° 18': 76° 56'), hornblende-schist. H. F. B., **M**, I, 220.
- Matha, *Bassein* (85 K/12; 17° 12' 30": 94° 32'), Negrais beds, section. W. T., **M**, X, 304.
- Mathadi, *Hazaribagh* (72 L/8; 24° 10' 30": 86° 17'), Talchir plants. O. F., **R**, X, 137.
- Mathar, *Afghanistan* (33 M/15; 35° 23': 67° 48'), Tertiary beds, section. C. L. G., **R**, XIX, 255=Madar.
- Mathasar, *Rajpipla* (46 G/9; 21° 46' 30": 73° 45'), oyster bed, Cretaceous. P. N. B., **R**, XXXVII, 171.
- Mathasur, *Jaipur* (54 B/13; 26° 55': 76° 56'), kaolin. A. M. H., **R**, XLVIII, 201.
- Matheran, *Kolaba* (47 F/5; 18° 59': 73° 16'), water-supply. E. H. P., **R**, LIII, 14; aluminous laterite. C. S. F., **M**, XLIX, 92.
- Mathrala, *Attock* (43 C/8; 33° 8': 72° 28'), U. Siwalik beds. E. H. P., **R**, LXIII, 126=Mithrala.
- Mathura (Mothura), *Ganjam* (74 E/2; 19° 36' 30": 85° 2' 30"), manganese-ore. L. L. F., **M**, XXXVII, 1037.
- Mathurutu, *Salem* (58 I/6; 11° 33': 78° 27'), iron smelting. T. H. H., **R**, XXV, 149.
- Matigara, *Singhbhum* (73 J/6; 22° 38' 30": 86° 22'), boring for copper. T. H. H., **R**, XXXVIII, 37; XXXIX, 237; L. L. F., **R**, LIII, 263; kyanite-rock. J. A. D., **M**, LII, 235=Mutiagara.
- Matipahar, *Jashpur* (64 N/15; 22° 18': 83° 48'), brecciated quartz. L. L. F., **R**, LXV, 75.
- Matkamhatu, *Singhbhum* (73 F/14; 22° 32': 85° 48'), manganese-ore. L. L. F., **M**, XXXVII, 623.
- Matni, *Nimar* (55 B/11; 22° 16' 30": 76° 33' 30"), iron-ore. P. N. B., **M**, XXI, 66.
- Matora, *Idar* (45 H/4; 24° 7': 73° 0' 30"), syenite-aplite. C. S. M., **M**, XLIV, 38.
- Matra, *Oman* (26 I/10; 23° 39': 58° 32'), pottery manufacture. G. E. P., **M**, XXXIV, pt. 4, 157.
- Matringa, *Surguja* (64 N/2; 22° 40': 83° 2' 30"), supra-Barakar sandstone. V. B., **R**, XV, 112; terrace of Barakar sandstone. W. K., **R**, XVIII, 195.
- Mattiana, *Simla* (53 E/8; 31° 12' 30": 77° 24'), calcareous chloritic schist. C. A. M., **R**, X, 212=Muttianna.
- Mattrapur (Mathurapur), *Sibsagar* (83 J/13; 26° 58': 94° 53'), coal seams. R. R. S., **R**, XXXIV, 214.
- Mattur, *Trichinopoly* (58 M/4; 11° 11': 79° 2'), Cretaceous fossils. C. A. Matley, **R**, LXI, 340.
- Matuda, *Manbhum* (73 F/13; 22° 54': 85° 52'), phyllites, Iron Ore series. J. A. D., **M**, LIV, 48; shearing in epidiorite, 78.
- Mau, *Idar* (46 E/2; 23° 44' 30": 73° 11'), Delhi quartzite. C. S. M., **M**, XLIV, 83 (Pl. iv, fig. 1).
- Maubin, Ma-u-bin, *Burma* (85 P/10; 16° 44': 95° 39'), Burma earthquake, 1912. J. C. B., **M**, XLII, 73; Pegu earthquake, 1930. **R**, LXV, 237.
- Maudih (Mahudi) hill, *Hazaribagh* (73 E/1; 23° 47': 85° 13'), Panchet beds. T. W. H. H., **M**, VII, 320.

- Mauktet, *Shwebo* (84 M/4; 23° 6' 30" : 95° 4'), vertebrate fossils. L. L. F., R, LXV, 19; alluvial gold, 50.
- Maukthayet, *L. Chindwin* (84 J/16; 22° 7' : 94° 58'), lime burning. E. H. P., R, LX, 26.
- Maulaikgyi, *U. Chindwin* (84 I/6; 23° 38' : 94° 25'), alluvial gold. H. S. B., R, XLIII, 250.
- Maulana Kotal, *Afghanistan* (38 C/13; 33° 45' : 68° 52'), copper-ore. C. L. G., R, XXV, 77.
- Maulia, *Ranchi* (73 A/14; 23° 39' 30" : 84° 57' 30"), Raniganj stage. A. J., M, LII, 130.
- Maulmain, *Amherst* (94 H/11; 16° 29' : 97° 38'), native lead. F. R. M., R, XVI, 203=Moulmein.
- Maulvi Bazar, *Sylhet* (78 P/15; 24° 29' : 91° 46'), Srimangal earthquake, 1918. M. S., M, XLVI, 18.
- Maulwari Mts., *Persia* (10 I/6; 31° 40' : 50° 26'), nummulitic limestone—Fars series. G. E. P., M, XXXIV, pt. 4, 83, 85 (Pl. xi).
- Maundla, *Jaipur* (45 M/13; 27° 49' : 75° 48'), marble. H. H. H., R, XLIV, 16.
- Maungkhan, *U. Chindwin* (83 O/4; 25° 4' : 95° 2'), alluvial gold. H. S. B., R, XLIII, 255.
- Maungmeshaug, *Tavoy* (95 J/4; 14° 9' : 98° 13') cassiterite and wolfram. T. H. H., R, XXXVIII, 57; J. C. B., M, XLIV, 281, 288.
- Mauri, *Rawalpindi* (43 G/6; 33° 39' 30" : 73° 22'), reversed fault. D. N. W., M, LI, 347.
- Maurypur, *Karachi* (35 L/13; 24° 52' : 66° 55'), salt works. J. A. D., R, LVI, 384.
- Mauterichan (Mawthadraishan), *Khasi Hills* (78 O/6; 25° 32' : 91° 27'), earthquake, 1897, landslips. R. D. O., M, XXIX, 117.
- Mavinhalli, *Tumkur* (57 C/11; 13° 22' : 76° 43'), manganese-ore. L. L. F., M, XXXVII, 1152.
- Mawbelurkar, *Khasi Hills* (78 O/15; 25° 24' : 91° 45'), Cretaceous overlap. H. B. M., M, IV, 418, 422=Maobelarkar.
- Mawchi (Loi Ma-che), *Karenni* (94 E/4; 19° 1' : 97° 7'), tin- and wolfram-ores. H. H. H., R, XLI, 75; XLVII, 25; J. C. B., R, L, 103; LVI, 98; LXIV, 305.
- Mawgyi, *Wuntho* (83 P/12; 24° 14' 30" : 95° 39' 30"), brine spring. F. N., R, XXVII, 119.
- Mawkalon, *Myitkyina* (92 C/7; 25° 30' : 96° 18'), granodiorite. E. H. P., R, LXII, 111.
- Mawkwin, *Wuntho* (83 P/12; 24° 10' : 95° 34'), brine spring. F. N., R, XXVII, 119.
- Mawlangwir, *Khasi Hills* (78 O/7; 25° 21' 30" : 91° 27'), Cretaceous beds. R. W. P., R, LV, 159, 161.
- Mawlaw, *Toungoo* (94 F/3; 18° 17' : 97° 5' 30"), Chaung Magyi slates. E. L. C., R, LX, 296.
- Mawlu, *Katha* (92 D/3; 24° 28' : 96° 11'), earthquake, 1897, sounds. R. D. O., M, XXIX, 195; jadeite. T. H. H., R, XXXIX, 122.
- Mawpalaw Taung, *Amherst* (95 E/13; 15° 52' : 97° 46'), tin-ore. E. H. P., R, LXI, 73.
- Mawsmmai, *Khasi Hills* (78 O/12; 25° 15' : 91° 44'), waterfall. T. O., M, I, 109 (Pl. v); native copper. L. L. F., R, LIV, 20; R. W. P., R, LV, 166=Maosmai.

- Mawson, *S. Shan States* (93 D/13; 20° 57': 96° 46' 30"), geology and lead-ores. J. C. B., **R**, LXV, 394=Bawzaing.
- Mawsynram, *Khasi Hills* (78 O/11; 25° 18': 91° 35'), nummulitic limestone and coal. R. W. P., **R**, LV, 162, 164=Maosandram.
- Mawthawpdah, *Khasi Hills* (78 O/7; 25° 24' 30": 91° 25'), granite. R. W. P., **R**, LV, 155.
- Maya (Mahiya), *Ladakh* (52 K/11; 33° 16': 78° 30'), volcanic beds, Tertiary. R. D. O., **R**, XXI, 154.
- Mayin, *L. Chindwin* (84 J/8; 22° 4': 94° 29' 30"), syncline in Eocene beds. E. H. P., **R**, LVI, 41.
- Maymyo, *Mandalay* (93 B/8; 22° 2': 96° 28'), Plateau limestone. T. D. L., **A. R.**, 1900, 84; **M**, XXXIX, pt. 2, 336; P. N. D., **A. R.**, 1900, 108, 117; Burma earthquakes, 1912. J. C. B., **M**, XLII, 7, 20, 114, 118; aftershocks, 125-131.
- Mayum, *Hundes* (62 J/6; 30° 33' 30": 82° 28'), gradient of Tsangpo. E. H. P., **M**, XL, 462.
- Mayutha (Manyatha), *Wuntho* (83 P/16; 24° 2': 95° 46'), auriferous pyrites. F. N., **R**, XXVII, 117.
- Mazar Drik, *Sibi* (39 C/9; 29° 51': 68° 40'), Belemnite beds. R. D. O., **R**, XXV, 20; Jurassic-Eocene, section. C. L. G., **R**, XXVIII, 7; Cretaceous-Tertiary sequence. F. N., **A. R.**, 1899, 52-61; Cretaceous, faunal zones. E. V., **R**, XXXVI, 177, 192; *Flemingostrea*. XLVII, 199 (Pl. xviii); *Physa prinsepilii*. N. A., **R**, LI, 59.
- Mazaw, *Mergui* (95 L/15; 12° 21': 98° 49'), tin-ore. T. W. H. H., **R**, XXII, 201.
- Mazdakhai hill, *Kohat* (38 O/8; 33° 13': 71° 19'), bituminous beds. E. H. P., **M**, XL, 357.
- Mechoi, *Kashmir* (43 N/11; 34° 18': 75° 31' 30"), glacier. R. D. O., **R**, XXXI, 150 (Pl. xvi); K. M., **R**, XL, 340; A. Neve, **R**, XL, 343.
- Meckalupoor (Mekkipillaiyur), *Salem* (58 I/10; 11° 35': 78° 33'), cavities in quartz. W. K., **M**, IV, 337.
- Medaw I., *Mergui* (96 I/10; 11° 42': 98° 38'), recent basaltic trap. E. H. P., **R**, LV, 32; LVI, 38.
- Medaw Kanbay, *Tavoy* (95 F/13; 14° 47': 97° 53'), wolfram. J. C. B., **R**, L, 106; **M**, XLIV, 263.
- Medh, *Idar* (46 E/1; 23° 57' 30": 73° 6'), biotite-gneiss. C. S. M., **M**, XLIV, 30; graphic pegmatite, 37 (Pl. x, fig. 4); Delhi quartzite, 81; quartz veins, 130.
- Medhasan, *Idar*. (46 E/2; 23° 32' 30": 73° 14'), sand dunes. C. S. M., **M**, XLIV, 143.
- Medi, *Chhindwara* (55 K/14; 21° 34': 78° 54'), Archæan synclinorium. E. H. P., **R**, LVIII, 52=Maindi.
- Medin, *L. Chindwin* (84 J/15; 22° 29' 30": 94° 48'), Pegu limestone and conglomerate. E. H. P., **M**, XL, 142.
- Mednipur, *Shahabad* (72 C/8; 25° 5': 84° 20'), geodetic station. R. D. O., **M**, XLII, 220.
- Me-do, *Sikkim* (77 D/12; 28° 5': 88° 37' 30"), L. Jurassic fossils. H. H. H., **R**, XXXII, 163.
- Meerpoor, *Hazara* (43 F/8; 34° 12': 73° 15'), Infra-Triassic beds. C. S. M., **M**, XXVI, 121.

- Meerut, *United Provinces* (53 G/12; 29° 0' 30": 77° 42'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 211; meteorite. J. C. B., **M**, XLIII, 235.
- Meghnagar, *Jhabua* (46 J/9; 22° 54': 74° 32'), new form of blue amphibole. L. L. F., **R**, XXXI, 235.
- Meghraj, *Idar* (46 E/10; 23° 30': 73° 31'), phyllites. C. S. M., **M**, XLIV, 115 (fig.).
- Megnanapuram, *Tinnevely* (58 H/15; 8° 28': 78° 0'), sand dune. R. B. F., **M**, XX, 93.
- Megpoor, *Cutch* (41 E/12; 23° 7': 69° 34'), Jurassic plant beds. W. T. B., **M**, VI, 22.
- Mehal, *Hazara* (43 F/4; 34° 9' 30": 73° 8' 30"), galena, assay. G. S. L., **R**, XXXI, 46.
- Meherpore, *Nadia* (79 A/9; 23° 46': 88° 38'), Cachar earthquake, 1869. T. O., **M**, XIX, 32; earthquake, 1897, fissures. R. D. O., **M**, XXIX, 328.
- Mehowgala (Mahogala), *Jammu* (43 K/8; 33° 12' 30": 74° 29' 30"), coalfield. T. D. L., **R**, XXI, 68; R. R. S., **M**, XXXII, 216 (Pl. i); **XLI**, 101.
- Meiktila, *Burma* (84 P/13; 20° 53': 95° 52'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 33; Burma earthquakes, 1912. J. C. B., **M**, XLII, 52, 121.
- Meindil, *Belgaum* (48 I/6; 15° 32': 74° 20'), laterite derived from gneiss. R. B. F., **M**, XII, 219=Mendil.
- Mein-ma-gywe, *Cheduba I.* (85 F/10; 18° 44': 93° 35' 30"), oil wells. E. H. P., **M**, XL, 194.
- Meinmaw, *Myitkyina* (92 C/6; 25° 44': 96° 20' 30"), jadeite. E. H. P., **R**, LXIII, 38.
- Meisera, *Gwalior* (54 J/4; 26° 5': 78° 4'), iron-ore. H. B. M., **M**, II, 63.
- Meke, *Tavoy* (95 K/5; 13° 51': 98° 26'), wolfram and tin. J. C. B., **R**, L, 115; **M**, XLIV, 306.
- Mekhtar, *Loralai* (39 F/7; 30° 28': 69° 22'), Belemnite beds, Cretaceous. C. L. G., **R**, XXVIII, 118; **XXIX**, 7.
- Mekyigünru, *Tibet* (77 D/12; 28° 10': 88° 33'), Jurassic limestone, fossils. H. H. H., **R**, XXXII, 163; **M**, XXXVI, 154 (Pl. ix, fig. 2).
- Mel Amathur, *Ramnad* (58 G/14; 9° 33': 77° 50' 30"), gem stones. L. L. F., **R**, XXXIII, 234.
- Melghat, *Amraoti* (55 G/2; 21° 42' 30": 77° 9'), columnar basalt. W. T. B., **M**, VI, 275.
- Meli, *Jodhpur* (45 C/6; 25° 44' 30": 72° 28'), Malani rhyolite, contact with granite. T. D. L., **M**, XXXV, 56.
- Melkarez, *Afghanistan* (34 I/4; 31° 12': 66° 4' 30"), hippuritic limestone. C. L. G., **M**, XVIII, 40.
- Melkottakuppam, *N. Arcot* (57 L/13; 12° 51': 78° 45' 30"), granite and quartz-syenite. L. L. F., **R**, LXV, 111.
- Mellapur, *Bellary* (57 A/7; 15° 16': 76° 20' 30"), pegmatite veins. R. B. F., **M**, XXV, 156.
- Melpatti, *N. Arcot* (57 L/13; 12° 52': 78° 47' 30"), granite and gneiss. E. H. P., **R**, LXII, 149.
- Melukilla (Mela), *Kohat* (38 O/3; 33° 17' 30": 71° 0' 30"), fault in Nummulitic series. A. B. W., **M**, XI, 215 (Pl. iv, fig. 20).
- Melur, *Madura* (58 J/8; 10° 2': 78° 20'), granitoid gneiss. R. B. F., **M**, XX, 15.

- Memauk, *Mandalay* (93 B/7; 22° 15' : 96° 27'), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 88; Silurian outlier, 132.
- Men Chu, *Tibet* (71 L/2; 28° 39' : 86° 2'), Cretaceous syncline. A. M. H., **R**, LIV, 227.
- Mendhar, *Punch* (43 K/2; 33° 36' 30" : 74° 8'), U. Murree beds. D. N. W., **M**, LI, 270, 317.
- Mendil, *Belgaum* (48 I/6; 15° 32' : 74° 20'), laterite, analysis. C. S. F., **M**, XLIX, 74=Meindil.
- Meng-chu, *Yunnan* (102 A/8; 23° 4' : 100° 28'), Permo-Triassic beds. J. C. B., **R**, LIV, 313.
- Meng-hsa, *Yunnan* (93 M/10; 23° 43' 30" : 99° 36' 30"), lead mine. J. C. B., **M**, XLVII, 137; 'caldrion valley'. **R**, LIV, 302.
- Meng-yung, *Yunnan* (93 M/13; 23° 57' 30" : 99° 46'), Plateau limestone. J. C. B., **R**, LIV, 301.
- Menkhap Me, *Tibet* (71 L/5; 28° 49' : 86° 19'), Jurassic ammonites. A. M. H., **R**, LIV, 227.
- Mensar, *Punch* (43 K/1; 33° 57' : 74° 8' 30"), Panjal trap, petrology. D. N. W., **M**, LI, 240.
- Mepale, *Amherst* (94 L/5; 16° 45' : 98° 24'), oil shales. G. C., **R**, LV, 296; *Dau-nichthys*. N. A., **R**, LVI, 204 (figs. & Pl. xiv).
- Meppadi, *Wynaad* (58 A/2; 11° 33' : 76° 8'), biotite-granite. H. H. H., **M**, XXXIII, pt. 2, 14, 17; auriferous reef, 21.
- Mera, *Punch* (43 K/3; 33° 30' : 74° 5'), lateritic bauxite. D. N. W., **M**, LI, 323.
- Meral (Maral), *Palamau* (72 D/4; 24° 6' : 84° 6'), coal seam. T. W. H. H., **M**, VIII, 336.
- Merandi, *Kohat* (38 O/3; 33° 15' 30" : 71° 6'), junction of nummulitic limestone and sandstone. A. B. W., **M**, XI, 218, 220 (Pl. iv, fig. 22).
- Merasia, *Jodhpur* (45 F/10; 26° 32' : 73° 39' 30"), basal beds, Vindhyan. A. M. H., **R**, LXV, 474.
- Meravada, *Idar* (46 E/6; 23° 41' : 73° 21'), Delhi quartzite. C. S. M., **M**, XLIV, 96.
- Mercanum, *S. Arcot* (57 P/16; 12° 11' 30" : 79° 56' 30"), lagoon deposits. H. F. B., **M**, IV, 191; W. K., **M**, IV, 356.
- Mercara, *Coorg* (48 P/11; 12° 25' : 75° 44'), kyanite-schists. T. H. H., **A. R.**, 1898, 29, manganiferous iron slag. L. L. F., **M**, XXXVII, 980.
- Mergui, *Burma* (95 L/11; 12° 26' : 98° 36'), psilomelane. L. L. F., **M**, XXXVII, 670.
- Merhal hill, *Garkwal* (53 J/8; 30° 6' : 78° 20'), Blaini and Subathu beds. H. B. M., **M**, III, pt. 2, 68, 88.
- Meria, *Surguja* (64 N/2; 22° 43' : 83° 5'), Talchir beds. W. K., **R**, XVIII, 193.
- Merpali, *Adilabad* (56 M/7; 19° 29' 30" : 79° 27' 30"), Kamthi beds. T. W. H. H., **R**, XI, 24.
- Meru, *Idar* (46 E/5; 23° 45' : 73° 18' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 93.
- Merna, *Allahabad* (63 G/15; 25° 29' : 81° 59'), meteorite. G. H. T., **R**, LVI, 345 (Pls. xviii-xxvii).
- Meshva R., *Idar* (46 E/6; 23° 37' : 73° 18'), Delhi quartzite. C. S. M., **M**, XLIV, 96.

- Metapali, *Adilabad* (56 M/12; 19° 11' : 79° 44'), Kota limestone. W. K., **R**, XII, 17; **M**, XVIII, 283.
- Metapenai hill, *Chota Udaipur* (46 F/16; 22° 10' : 73° 51' 30"), volcanic focus. W. T. B., **R**, V, 91=Matepenai hill.
- Metgotar, *Satara* (47 G/9; 17° 55' 30" : 73° 42' 30"), manganese-ore. L. L. F., **M**, XXXVII, 662.
- Methamalai, *N. Arcot* (57 L/14; 12° 34' : 78° 47'), iron-ore. C. S. M., **A. R.**, 1898, 20.
- Meting, *Karachi* (40 C/4; 25° 10' : 68° 7'), Alveolina limestone. W. T. B., **M**, XVII, 149; Eocene echinoidea. E. V., **A. R.**, 1902, 35; **R**, XXXIV, 193.
- Metra, *Bellary* (57 A/11; 15° 19' : 76° 37' 30"), green quartzite. R. B. F., **M**, XXV, 139.
- Mettupalaiyam, *Coimbatore* (58 A/15; 11° 18' : 76° 56'), dam-site. E. H. P., **R**, LXII, 48.
- Metur, *Salem* (58 E/13; 11° 47' : 77° 48'), dam-site. E. H. P., **R**, LX, 31; LXII, 48.
- Mewasa, *Kathiawar* (41 N/3; 22° 17' 30" : 71° 15'), basal beds, Deccan trap. F. F., **M**, XXI, 89.
- Meyal-ki-Dhok, *Attok* (43 C/3; 33° 18' : 72° 8' 30"), boring for oil. E. H. P., **M**, XL, 408; **R**, LXIII, 126.
- Meyongdisa R., *Nougong* (83 G/5; 25° 56' : 93° 17'), mud vents. F. H. S., **M**, XXVIII, 84; E. H. P., **M**, XL, 310; nummulitic limestone. C. S. M., **R**, XLV, 115.
- Meyrudodi (Myadardoki), *Raichur* (57 A/5; 15° 51' : 76° 22'), hematite-quartzites. R. B. F., **R**, XXII, 30.
- Meza R., *Katka* (93 A/1; 23° 52' : 96° 4'), alluvial gold. R. R., **R**, XIX, 268.
- Mezadaw, *Shwebo* (84 N/13; 22° 57' 30" : 95° 55'), alluvial gold. E. H. P., **R**, LXIII, 36.
- Mezali Kwin, *Insein* (94 C/3; 17° 23' 30" : 96° 10'), dam-site. E. H. P., **R**, LXII, 38.
- Mezaligon, *Henzada* (85 O/1; 17° 54' : 95° 14'), sandstone quarries. E. H. P., **R**, LVI, 32.
- Mhor, *Idar* (45 D/16; 24° 0' 30" : 72° 53' 30"), calc-gneiss. C. S. M., **M**, XLIV, 13; Idar granite, 117.
- Mhow (Mau), *Azamgurih* (63 O/9; 25° 57' : 83° 34'), meteorite. J. C. B., **M**, XLIII, 236.
- Mhow (Mae), *Cutch* (41 I/7; 23° 26' : 70° 22'), Jurassic beds, section. A. B. W., **M**, IX, 131.
- Mhow, *Indore* (46 N/14; 22° 33' : 75° 46'), Artesian well. E. V., **M**, XXXII, 85; Cutch earthquake, 1819. R. D. O., **M**, XLVI, 115.
- Mhowadand (Mahuadand), *Palumau* (73 A/3; 23° 24' : 84° 6' 30"), laterite. C. S. F., **M**, XLIX, 164.
- Mhowagurhi, *Santal Parganas* (72 P/7; 24° 20' : 87° 24'), coalfield. R. R. S., **M**, XLI, 38=Mohwagarhi.
- Mhurr (Matanomadh), *Cutch* (41 A/14; 23° 32' : 68° 57'), sub-Nummulitic and Jurassic beds, sections. A. B. W., **M**, IX, 71, 260 (Pl. vi); alum works, 87; hot spring. T. O., **M**, XIX, 110; Gaj series, mollusca. E. V., **M**, L, 422, 426, 451=Madh,

- Miagwan (Miangun) hill, *Larkhana* (35 M/5; 27° 53': 67° 26'), Khirthar-Nari beds. W. T. B., **M**, XVII, 76.
- Mian Khel, *Afghanistan* (38 F/3; 34° 21': 69° 11' 30'), trap rocks. C. L. G., **R**, XXV, 74.
- Mian Mir, *Lahore* (44 I/6; 31° 32': 74° 23'), geodetic station. R. D. O., **M**, XLII, 232, 259.
- Mian-Jani-ka-Chauki, *Hazara* (43 F/8; 34° 6' 30": 73° 25'), Attock slates. A. B. W., **R**, XII, 120, 208.
- Mianwala, *Attock* (43 C/7; 33° 23' 30": 72° 18'), reversed fault. E. H. P., **M**, XL, 401.
- Miao-tsway, *Yunnan* (101 C/11; 25° 22': 100° 41'), coal seams. J. C. B., **M**, XLVII, 66; Triassic fossils. **R**, LIV, 78.
- Michaungdwin, *L. Chindwin* (84 J/9; 22° 48' 30": 94° 41'), oil seepage. E. H. P., **R**, LXIII, 48=Migyaungdwin.
- Mi-chih, *Yunnan* (101 C/12; 25° 10': 100° 34'), Permo-Triassic beds. J. C. B., **R**, LIV, 322.
- Midnapore, *Bengal* (73 N/7; 22° 25': 87° 19'), laterite, sections. W. T. B., **M**, I, 270, 272; supposed coal in boring. T. O., **R**, IV, 8; earthquakes: Cachar, 1869. **M**, XIX, 33; Assam, 1897, fissures. R. D. O., **M**, XXIX, 110, 325; sounds, 192; Kangra, 1905. C. S. M., **M**, XXXVIII, 262; Srimangal, 1918. M. S., **M**, XLVI, 29.
- Mien-ning T'ing, *Yunnan* (102 A/1; 23° 50': 100° 2'), granite. J. C. B., **R**, LIV, 305.
- Migyaungchaung, *Mergui* (96 I/11; 11° 25': 98° 44'), tin-ore. T. H. H., **R**, XXXVII, 40.
- Migyaungdwin, *L. Chindwin* (84 J/9; 22° 48' 30": 94° 41'), oil seepage. E. H. P., **M**, XL, 145=Michaungdwin.
- Migyaunge, *Magwe* (85 M/1; 19° 54': 95° 6'), Pegu anticline. H. H. H., **R**, XLII, 78; Tertiary gastropoda. E. V., **R**, LIII, 84, 130.
- Migyaunglaung, *Tavoy* (95 J/2; 14° 40': 98° 8'), limestone, Mergui series. J. C. B., **M**, XLIV, 183.
- Mihtoigahtawng, *Hukawng* (92 C/13; 25° 55': 96° 56' 30"), ultra-basic rocks. L. L. F., **R**, LXV, 78.
- Miji, *Sibsagar* (83 F/12; 26° 1': 93° 32'), charnockites. F. H. S., **M**, XXVIII, 76; Cretaceous trap, 79; nummulitic limestone, 82.
- Mik (Mikhola), *Sikkim* (78 A/8; 27° 8' 30": 88° 21'), copper-ore. P. N. B., **R**, XXIV, 227.
- Mikkim, *Spiti* (52 L/4; 32° 2': 78° 3'), Carboniferous limestone. H. H. H., **M**, XXXVI, 42.
- Milach, *Hazara* (43 F/8; 34° 3' 30": 73° 23'), syncline in Kuldana beds. C. S. M., **M**, XXVI, 186 (fig.).
- Milam, *Almora* (62 B/3; 30° 26': 80° 9'), Cretaceous-Silurian fossils. W. W., **R**, XI, 184; Vaikrita-Haimanta boundary. C. L. G., **M**, XXIII, 158; glacier, survey. G. C., **R**, XXXV, 152 (Pls. lii-lv & lxiii).
- Milam, *Rawalpindi* (43 G/3; 33° 23': 73° 2' 30"), U. Siwalik fossils. D. N. W., **M**, LI, 286, 344.
- Mi-le Hsien, *Yunnan* (101 P/7; 24° 24' : 103° 26'), coalfield. J. C. B., **R**, XLVII, 65.

- Mil-i-Farhad, *Persia* (24 L/16; 28° 6' : 58° 45'), porphyrite boss. G. H. T., **R**, LIII, 62 (Pl. ix, fig. 1).
- Mima, *Naga Hills* (83 K/2; 25° 36' 30" : 94° 9'), river terraco. E. H. P., **R**, XLII, 263.
- Minab, *Persia* (25 E/4; 27° 8' : 57° 5'), Siwalik beds. G. H. T., **R**, LIII, 67. Bakhtiyari conglomerate. G. E. P., **M**, XLVIII, pt. 2, 102.
- Minagaon, *Bhopal* (55 A/9; 23° 53' : 76° 31'), sub-recent 'concreto'. T. H. H., **R**, XXXV, 57.
- Minapin glacier, *Nagir* (42 L/12; 36° 10' : 74° 36'), survey. H. H. H., **R**, XXXV, 131 (Pls. xxiii, xxiv & xxxv); advance, 1908. H. F. Bridges, **R**, XXXVII, 221; movements of snout. K. M., **R**, LXIII, 230 (Pl. vi, 4).
- Minarra (Mirhara), *Rewah* (64 E/13; 23° 57' : 81° 54'), Rahiganj plants. O. F., **R**, XIII, 184.
- Minas, *Sirmur* (53 F/9; 30° 46' : 77° 42'), Mandhali series. G. E. P., **M**, LIII, 39.
- Minbain, *Ramri I.* (85 E/11; 19° 17' : 93° 32'), oil wells. F. R. M., **R**, XI, 214 = Minbyin.
- Minbo (Monnyo), *Sagaing* (84 N/16; 22° 7' : 95° 53'), salt. E. H. P., **R**, LXII, 61.
- Minbu, *Burma* (84 L/16; 20° 11' : 94° 53'), oilfield and mud volcanoes. F. N., **M**, XXVII, 78, 81 (Pls. i-vii); E. H. P., **M**, XL, 149, 159 (Pls. xxxvii-xliv); petroleum, analysis. C. Engler, **R**, XXVII, 52; Miocene fauna. F. N., **R**, XXVIII, 71; **M**, XXVII, 2; gastropoda. E. V., **R**, LI, 340; LIII, 84, 130; **M**, L, 254, 306; Burma earthquake, 1912. J. C. B., **M**, XLII, 61.
- Minbya, *Akyab* (84 H/7; 20° 22' : 93° 16' 30"), Srimangal earthquake, 1918. M. S., **M**, XLVI, 29.
- Minbyin, *Ramri I.* (85 E/11; 19° 17' : 93° 32'), oilfield. E. H. P., **M**, XL, 190 (Pls. xlviii-liv); old sea cliffs, 209 (Pls. xlv, xlvii) = Minbain.
- Mindat, *Tavoy* (95 K/6; 13° 41' : 98° 23'), Mergui series. J. C. B., **M**, XLIV, 181.
- Mindegvi, *Thayetmyo* (85 I/13; 19° 48' : 94° 56'), Tertiary gastropoda. E. V., **R**, LI, 340; LIII, 84, 130; **M**, L, 306.
- Mindon, *Thayetmyo* (85 I/11; 19° 21' : 94° 44'), *Orthophragmina*. G. C., **R**, LIV, 112.
- Minet-toung (Myenettaung), *Prome* (85 M/8; 19° 11' : 95° 29' 30"), bedded traps and 'regur'. W. T., **M**, X, 231; E. H. P., **M**, XL, 46.
- Minganzu, *Myingyan* (84 P/1; 20° 49' : 95° 2'), Pegu inlier. E. H. P., **M**, XL, 125.
- Mingin, *U. Chindwin* (84 J/9; 22° 53' : 94° 30'), Burma earthquake, 1912. J. C. B., **M**, XLII, 59; aftershock, 125.
- Miniari, *Jodhpur* (45 G/2; 25° 40' : 73° 7'), Malani-Aravalli unconformity. T. D. L., **M**, XXXV, 19 (Pl. i, fig. 4); nodular rhyolite, 67.
- Minlindoung, *Magwe* (84 L/15; 20° 27' : 94° 52'), *Batissa* bed. F. N., **R**, XXVIII, 75.
- Minpalaung, *S. Shan States* (93 D/5; 20° 56' : 96° 27' 30"), coal seam. E. J. J., **R**, XX, 179; R. R. S., **M**, XLI, 69.
- Mintaka pass, *Hunza* (42 L/13; 36° 59' 30" : 74° 51'), granite and Sarikol shales. H. H. H., **R**, XLV, 300.
- Mintha, *Tavoy* (95 K/6; 13° 42' : 98° 27'), granite. J. C. B., **M**, XLIV, 186, 191.
- Minyin, *Myingyan* (84 O/8; 21° 14' 30" : 95° 18' 30"), water-supply. E. H. P., **R**, LX, 59.



- Min-ywa (Minyanzin), *S. Shan States* (93 D/11 ; 20° 26' 30" : 96° 45'), conglomerates Purple sandstone series. C. S. M., A. R., 1900, 146.
- Mir Ali Dad, *Persia* (25 E/4 ; 27° 13' : 57° 8'), Zindan series, Eocene. G. E. P., M, XLVIII, pt. 2, 75, 103.
- Mir Kalan, *Peshawar* (38 O/13 ; 33° 49' : 71° 57'), Cretaceous-Eocene boundary. C. L. G., R, XXV, 96.
- Mira Sab ka Dongar, *Bundi* (45 O/11 ; 25° 26' : 75° 39'), Panna shales. A. L. C., R, LX, 170 ; Samria shales, 176 ; L. Bhandar sandstone, 178.
- Mirab Tangi, *Sibi* (39 B/4 ; 30° 12' : 68° 3'), nummulitic limestone. R. D. O., R, XXIII, 93.
- Miragpur, *Balaghat* (55 O/14 ; 21° 38' : 79° 50'), manganesc-ore. L. L. F., M, XXXVII, 745 (fig.).
- Miran Shah, *Waziristan* (38 L/1 ; 32° 59' : 70° 4'), hematite concretions. F. H. S., R, XXVIII, 106.
- Miregaon, *Bhandara* (55 O/16 ; 21° 0' : 79° 56' 30"), kyanite-sillimanite rocks. S. K. C., R, LXV, 288.
- Mirgasht Gol, *Chitral* (42 D/7 ; 36° 27' : 72° 17'), orpiment mines. L. L. F., R, LIV, 17.
- Mirgitanr, *Singbhum* (73 J/6 ; 22° 43' : 86° 29'), manganese-ore. E. H. P., R, LXIII, 47.
- Mirjawa, *Chagai* (30 H/5 ; 29° 0' : 61° 27'), igneous rocks, flysch series. E. V., M, XXXI, 255 (Pl. xi).
- Mirkani, *Chitral* (38 M/11 ; 35° 28' : 71° 44'), volcanic agglomerate and granite. H. H. H., R, XLV, 277 ; copper-ore. E. H. P., R, I.V, 15.
- Mirkhweli, *Kohat* (38 O/2 ; 33° 30' 30" : 71° 13'), Nummulitic series, section. A. B. W., R, XII, 106 (Pl. iv, fig. 1).
- Mirkulan pass, *Peshawar* (38 O/13 ; 33° 50' : 71° 55'), Cretaceous-Eocene, section. A. B. W., R, X, 128.
- Mirpur, *Sirohi* (45 D/13 ; 24° 47' 30" : 72° 46'), felspar-porphyry, twinning of felspars. A. L. C., R, LXV, 173.
- Miru, *Ladakh* (52 G/14 ; 33° 40' 30" : 77° 52'), Tertiary conglomerates. R. L., R, XIII, 39.
- Mirzapoor, *Dhar* (55 B/2 ; 22° 32' : 76° 11'), granite. W. T. B., M, VI, 260.
- Mirzapur, *Ghazipur* (63 O/2 ; 25° 41' : 83° 12' 30"), meteorite. G. C., R, XLII, 272 (Pls. xxxviii-xl) ; J. C. B., M, XLIII, 237.
- Mirzapur, *United Provinces* (63 K/12 ; 25° 9' : 82° 34'), sandstone quarries. F. R. M., M, VII, 116 ; V. B., R, VII, 116 ; earthquake, 1897, time record. R. D. O., M, XXIX, 65, 71 ; Cutch earthquake, 1819. XLVI, 114.
- Misgar, *Hunza* (42 L/13 ; 36° 47' : 74° 46'), slates and Pamir limestone. H. H. H., R, XLV, 299.
- Mishmi Ghat, *Mishmi Hills* (92 A/1 ; 27° 50' : 96° 1'), river terrace. J. M. M., R, XXXI, 195, 222 (Pl. xx).
- Mislook, *Oman* (26 N/7 ; 22° 27' : 59° 27'), nummulitic limestone. G. E. P., M, XXXIV, pt. 4, 20.
- Misriot, *Hawalpindi* (43 C/14 ; 33° 31' : 72° 59'), supposed oil seepage. E. H. P., M, XL, 398.
- Misroul, *Hazaribagh* (73 A/13 ; 23° 57' : 85° 0'), Talchir beds. A. J., M, LII, 8.

- Missirgama, *Rewah* (63 H/11;  $24^{\circ} 25' : 81^{\circ} 37'$ ), Kheinjua limestone. P. N. L., **M**, XXXI, 148.
- Mit Koh, *Chagai* (30 K/7;  $29^{\circ} 17' : 62^{\circ} 26'$ ), volcano. E. V., **M**, XXXI, 283.
- Mitgain, *Surguja* (64 M/9;  $23^{\circ} 45' : 83^{\circ} 39'$ ), pot-holes in Talchir sandstone. C. L. G., **M**, XV, 143 (Pl. ii, fig. 1); Talchir-Raniganj section, 160.
- Mitha, *Mianwali* (38 P/1;  $32^{\circ} 48' : 71^{\circ} 9' 30''$ ), sulphurous springs. A. R. W., **M**, XVII, 265; E. H. P., **M**, XL, 427.
- Mithanwan pass, *D. G. Khan* (39 J/4;  $30^{\circ} 1' : 70^{\circ} 12'$ ), lignite. V. B., **R**, VII, 146.
- Mithi Sot, *Garhwal* (53 K/5;  $29^{\circ} 54' : 78^{\circ} 17'$ ), Nahan-Siwalik boundary. R. D. O., **R**, XVII, 164.
- Mithrala, *Attock* (43 C/8;  $33^{\circ} 8' : 72^{\circ} 28'$ ), *Lamellidens*. B. P., **R**, LXIII, 432 = Mathrala.
- Mithwe, *Bhamo* (92 D/16;  $24^{\circ} 2' : 96^{\circ} 59'$ ), coalfield. R. D. O., **R**, XXX, 6; R. R. S., **M**, XLI, 74; analysis of coal. G. S. L., **R**, XXX, 256.
- Mitkora, *Ranchi* (73 F/1;  $23^{\circ} 0' : 85^{\circ} 2' 30''$ ), biotite-gneiss, analysis. L. A. N., **R**, LXV, 502; myrmekite, 513 (Pl. xxvi, fig. 3).
- Mittan pass, *Kohat* (38 O/7;  $33^{\circ} 16' : 71^{\circ} 23'$ ), Tertiary beds, section. A. B. W., **M**, XI, 284 (Pl. ix, fig. 53).
- Mi-tu, *Yunnan* (101 C/11;  $25^{\circ} 21' : 100^{\circ} 31'$ ), Permo-Carboniferous igneous rocks. J. C. B., **R**, LIV, 74.
- Mizra, *Oman* (26 I/3;  $23^{\circ} 30' : 58^{\circ} 14'$ ), contact of Oman series with nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 97.
- Mo, *Bundi* (54 C/2;  $25^{\circ} 34' : 76^{\circ} 2' 30''$ ), U. Vindhyan, section. A. L. C., **R**, LX, 177 (fig.).
- Mo Chu, *Darjeeling* (78 B/13;  $26^{\circ} 58' : 88^{\circ} 51'$ ), copper-ore. H. H. H., **A. R.**, 1902, 14.
- Moar Domur, *Bhopal* (55 J/5;  $22^{\circ} 53' : 78^{\circ} 18'$ ), fossil bones in Narbada alluvium. W. T., **M**, II, 292; Chelonia. F. S., **R**, II, 36 (Pl. i).
- Modasa, *Parantij* (46 E/7;  $23^{\circ} 28' : 73^{\circ} 17' 30''$ ), Delhi quartzite. C. S. M., **M**, XLIV, 112.
- Modhri, *Idar* (46 E/6;  $23^{\circ} 42' 30'' : 73^{\circ} 16'$ ), Delhi quartzite. C. S. M., **M**, XLIV, 92.
- Modpodor (Matapodor), *Jeypore* (65 J/5;  $18^{\circ} 46' 30'' : 82^{\circ} 19' 30''$ ), potstone. T. L. W., **A. R.**, 1900, 168; iron-ore, 175.
- Moflong, *Khasi Hills* (78 O/15;  $25^{\circ} 27' : 91^{\circ} 45' 30''$ ), coal seams. F. R. M., **R**, VIII, 86 = Maophlang and Mowphlang.
- Mogallur, *Nellore* (57 M/16;  $15^{\circ} 2' 30'' : 79^{\circ} 57' 30''$ ), Rajmahal plant beds, section. R. B. F., **M**, XVI, 53.
- Mogalur, *Nellore* (57 M/7;  $15^{\circ} 20' : 79^{\circ} 24'$ ), mica-schist. R. B. F., **M**, XVI, 28.
- Mogaung, *Myitkyina* (92 C/15;  $25^{\circ} 18' : 96^{\circ} 56'$ ), coalfield. F. N., **R**, XXV, 133; XXVI, 28; Burma earthquake, 1912; J. C. B., **M**, XLII, 56.
- Moghal Hat, *Rangpur* (78 G/5;  $26^{\circ} 0' : 89^{\circ} 28'$ ), earthquake, 1897, sand-vent. H. H. H., **M**, XXIX, 286.
- Moghal Kot, *D. I. Khan* (39 I/3;  $31^{\circ} 27' : 70^{\circ} 6'$ ), petroleum springs. R. D. O., **R**, XXIV, 83; T. D. L., **R**, XXV, 171 (Pla. xvi, xvii); E. H. P., **M**, XL, 486; analyses of oil. T. H. H., **R**, XXIV, 84; XXV, 175.
- Moghalsarai, *Benares* (63 O/3;  $25^{\circ} 17' : 83^{\circ} 8'$ ), geodetic station. R. D. O., **M**, XLII, 225.

- Moginand, *Ambala* (53 B/14 ; 30° 40' 30" : 76° 53' 30"), Fauna Sivalensis. E. H. P., **R**, LV, 41.
- Mogla, *Jhelum* (43 H/5 ; 32° 52' 30" : 73° 29'), overfolding in Cambrian beds. L. L. F., **R**, LXV, 119.
- Mogok, *Ruby Mines* (93 B/5 ; 22° 55' : 96° 30'), gem tract. T. D. L., **M**, XXXIX, pt. 2, 319, 371 ; E. H. P., **R**, LXI, 53 ; withamite. L. L. F., **M**, XXXVII, 671 ; Burma earthquakes, 1912. J. C. B., **M**, XLII, 45, 114, 120 ; after-shocks, 125, 126, 130 ; ossiferous cave. E. H. P., **R**, LXI, 18 ; L. L. F., **R**, LXV, 18 ; garnet-cordierite-gneiss, petrology. J. A. D., **R**, LXV, 445 (Pls. xix-xxi).
- Mogoung, *Thayetmyo* (85 M/3 ; 19° 25' : 95° 14' 30"), Mogoung sands, section. W. T., **R**, II, 84 ; **M**, X, 260.
- Mogra, *Bhandara* (55 O/16 ; 21° 0' : 79° 52' 30"), dumortierite. E. H. P., **R**, LXII, 134 ; analysis. LXIII, 26 ; kyanite-rocks. S. K. C., **R**, LXV, 291.
- Mogra, *Chhindwara* (55 K/14 ; 21° 34' : 78° 54' 30"), Archæan synclinatorium. E. H. P., **R**, LVIII, 52.
- Mogra, *Tippera* (79 M/1 ; 23° 50' : 91° 12'), earthquake, 1897. G. E. G., **M**, XXIX, 300.
- Mogulmaidan, *Kashmir* (43 O/11 ; 33° 24' : 75° 40'), slates and granitoid gneiss. R. L., **R**, XI, 57 ; R. D. O., **R**, XXI, 159.
- Mogyobinkanbya, *L. Chindwin* (84 N/4 ; 22° 4' : 95° 3'), rhyolitic tuff and breccia. E. H. P., **R**, LXI, 105.
- Mogyodwin, *Sagaing* (84 O/14 ; 21° 36' 30" : 95° 59'), freshwater mollusca. E. H. P., **R**, LX, 84.
- Mohabar (Mahwar), *Jodhpur* (40 O/6 ; 25° 42' : 71° 24' 30"), calcareous conglomerate. W. T. B., **R**, X, 11.
- Mohammerah, *Persia* (10 B/3 ; 30° 25' : 48° 10'), Mesopotamian alluvium. G. E. P., **M**, XXXIV, pt. 4, 75.
- Mohan, *Saharanpur* (53 F/16 ; 30° 11' : 77° 55'), geodetic station. R. D. O., **M**, XLII, 240, 256.
- Mohanpura, *Bundi* (54 C/2 ; 25° 44' : 76° 11'), Kaipur stage. A. L. C., **R**, LX, 168 ; Sirbu shales, 180 ; Vindhyan boundary fault, 185.
- Mohar (Moar), *Adilabad* (56 M/3 ; 19° 20' 30" : 79° 8' 30"), Kota-Maleri beds, plants. T. W. H. H., **R**, XI, 28.
- Moharraq, *Persian Gulf* (11 J/11 ; 26° 15' : 50° 36'), submarine springs. G. E. P., **M**, XXXIV, pt. 4, 124.
- Mo-hei, *Yunnan* (102 E/4 ; 23° 9' : 101° 10'), salt mine. J. C. B., **M**, XLVII, 178 ; **R**, LIV, 319.
- Mohenjo Daro, *Larkhana* (40 A/3 ; 27° 19' : 68° 8'), ornament of heated talc. G. V. H., **R**, LIX, 369 ; fuchsite vase. J. A. D., **R**, LXV, 314.
- Moheshkala, *Khasi Hills* (78 K/16 ; 25° 11' : 91° 0'), Dagshai or Kasauli beds (?). E. H. P., **R**, LVI, 36.
- Mohochaung (Maw Ho-sang), *N. Shan States* (93 E/11 ; 23° 27' : 97° 33'), lead mines. J. C. B., **R**, LVI, 89.
- Mohpani, *Chhindwara* (55 K/13 ; 21° 47' : 78° 55'), marble, origin. C. S. M., **R**, XLV, 401.

- Mohpani, *Narsinghpur* (55 J/14; 22° 45': 78° 50'), coalfield. H. B. M., **R**, III, 63 (fig. & Pl. i); IV, 67; V, 109; VIII, 66; XII, 95; W. K., **R**, XXVI, 3; R. R. S., **M**, XLI, 92; Karharbari plants. O. F., **R**, XII, 74—Mopani.
- Mohra, *Panna* (63 D/6; 24° 43': 80° 25'), diamond workings. E. V., **R**, XXXIII, 287.
- Mohra, *Punch* (43 K/6; 33° 37': 74° 20'), Agglomerate Slate series, section. D. N. W., **M**, LI, 235.
- Mohra, *Rawalpindi* (43 G/6; 33° 38' 30": 73° 19'), reversed fault. D. N. W., **M**, LI, 347.
- Mohri Khambal, *Rawalpindi* (43 G/2; 33° 31': 73° 13'), Murree boundary fault. D. N. W., **M**, LI, 347.
- Mohugaon, *Nagpur* (55 O/3; 21° 27': 79° 1' 30"), hollandite. L. L. F., **M**, XXXVII, 90; piedmontite, 189, 191; manganese-ore, 955 (fig.); analysis. **R**, XXXI, 47.
- Mohugaon Ghat, *Balaghat* (55 O/14; 21° 37': 79° 50'), manganese-ore. L. L. F., **M**, XXXVII, 750.
- Mohwagarhi, *Santal Parganas* (72 P/7; 24° 29': 87° 24'), Dubrajpur beds, section. V. B., **M**, XIII, 203; travertine, 204, 240=Mhowagurhi.
- Mohynin, *Kathu* (92 D/5; 24° 47': 96° 22'), rutile. E. V., **R**, XXXI, 45.
- Moilang, *Naga Hills* (83 J/4; 26° 4': 94° 4'), ferruginous conglomerate, Tipam series. H. H. H., **R**, XL, 290.
- Mokanpura, *Alwar* (54 A/6; 27° 43': 76° 25'), flooring slabs. A. M. H., **M**, XLV, 127.
- Mokata, *Patiala* (54 A/1; 27° 49': 76° 4' 30"), copper-ore. A. M. H., **R**, LIV, 385 =Motaka.
- Mokersa (Markasa), *Khasi Hills* (78 O/6; 25° 31': 91° 25' 30"), earthquake, 1897, projection of stones. R. D. O., **M**, XXIX, 130 (Pl. xxxi).
- Mokhadi, *Rajpipla* (46 G/9; 21° 49': 73° 45'), Narbada rapids. P. N. B., **R**, XXXVII, 168 (Pl. vi); marble, 186.
- Mokma, *Khasi Hills* (78 O/11; 25° 20': 91° 42'), nummulitic limestone. H. B. M., **M**, VII, 163.
- Mokochoang, *Naga Hills* (83 J/11; 26° 19': 94° 31'), Disang shales, plants. H. H. H., **R**, XL, 286.
- Mokogaon (Muko), *Lakhimpur* (83 M/15; 27° 23' 30": 95° 48'), auriferous gravels. J. M. M., **R**, XXXI, 217.
- Mokpalin, *Thaton* (94 C/15; 17° 26': 96° 53'), iron-ore. E. H. P., **R**, LXI, 61; Pegu earthquake, 1930. J. C. B., **R**, LXV, 236.
- Moksoma Kon, *Myingyan* (84 L/13; 20° 54': 94° 50'), oil sand. E. H. P., **M**, XL, 115, 116.
- Mol, *Karachi* (35 O/6; 25° 40': 67° 23'), Gaj series, *Ostrea*. E. V., **M**, L, 429.
- Molagavalli, *Bellary* (57 E/7; 15° 21' 30": 77° 20'), epidote-granite veins. R. B. F., **M**, XXV, 65, 176.
- Molia, *Mayurbhanj* (73 K/9; 21° 54': 86° 44'), oyster-bearing limestone, Tertiary. P. M. B., **R**, XXXI, 167.
- Molim (Myllem), *Khasi Hills* (78 O/15; 25° 30': 91° 49'), iron-ore. T. O., **M**, I, 202; granite. H. B. M., **M**, IV, 419; VII, 203.
- Momai (Samdong), *Sikkim* (78 A/9; 27° 55': 88° 42'), hot springs. T. O., **M**, XIX, 131; P. N. B., **R**, XXIV, 220.

- Momeik, *Burma* (93 A/12; 23° 7' : 96° 40'), Burma earthquakes, 1912. J. C. B., **M**, XLII, 47, 120; aftershocks, 125-129=Mongmit.
- Mon (Mulung), *Naga Hills* (83 N/2; 26° 44' : 95° 3'), brine well. H. H. H., **R**, XL, 287.
- Mon La, *Tibet* (71 L/9; 28° 52' : 86° 42'), 'feather' amphibolite pebbles. A. M. H., **R**, LIV, 230.
- Monat Kon, *Thayetmyo* (85 M/1; 19° 47' 30" : 95° 9'), oil seepage. E. H. P., **M**, XL, 169.
- Mondacooly, *Salem* (57 L/12; 12° 6' : 78° 38'), iron-ore bed. W. K., **M**, IV, 281.
- Mondali, *Puri* (72 H/15; 20° 27' : 85° 45' 30"), carbonaceous shales, Athgarh series. V. B., **R**, X, 66.
- Monda, *L. Chindwin* (84 N/3; 22° 19' 30" : 95° 14'), Pegu inlier. E. H. P., **R**, LXII, 103.
- Mongbru, *Sikkim* (78 A/7; 27° 17' : 88° 18'), copper-ore. P. N. B., **R**, XXIV, 227.
- Mong-go, *Tibet* (77 D/4; 28° 9' : 88° 8'), Trias (?). H. H. H., **M**, XXXVI, 144.
- Mong-Ha, *N. Shan States* (93 J/3; 22° 19' : 98° 12' 30"), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 94.
- Monghko, *N. Shan States* (93 F/11; 22° 17' : 97° 36'), Plateau limestone, analysis. T. D. L., **M**, XXXIX, pt. 2, 188.
- Mong-hkong-hka (Man Hkowng), *Bhamo* (92 H/11; 24° 26' 30" : 97° 37'), gneiss. J. C. B., **R**, XLIII, 183.
- Monghyr, *Bihar* (72 K/7; 25° 22' : 86° 28'), Cachar earthquake, 1869. T. O., **M**, XIX, 33; earthquake, 1897. E. V., **M**, XXIX, 307.
- Mong-Ing, *S. Shan States* (93 O/8; 21° 7' : 99° 20' 30"), antimony-ore. H. C. J., **R**, LIII, 49; J. C. B., **R**, LVI, 92.
- Mong-Keng, *N. Shan States* (93 J/6; 22° 38' 30" : 98° 24'), dome in Ordovician and Silurian beds. T. D. L., **M**, XXXIX, pt. 2, 93, 145.
- Mong-La, *N. Shan States* (93 F/16; 22° 7' 30" : 97° 57'), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 95, 361.
- Mong-lien, *Yunnan* (92 L/9; 24° 53' : 98° 34'), olivine-basalt, petrology. R. C. B., **R**, XLIII, 214.
- Mong-Long, *N. Shan States* (93 B/9; 22° 47' 30" : 96° 37'), mica-schists. T. D. L., **M**, XXXIX, pt. 2, 46; tourmaline gravels, 320, 372=Mainglon.
- Mongmit, *Burma* (93 A/12; 23° 7' : 96° 40'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 245=Momeik.
- Mong-pai, *Yunnan* (102 A/6; 23° 42' : 100° 21'), Permo-Triassic beds. J. C. B., **R**, LIV, 308.
- Mong-Pawn, *S. Shan States* (93 H/5; 20° 49' : 97° 27' 30"), Permo-Carboniferous fossils. C. S. M., **A. R.**, 1900, 139; sub-recent conglomerates and sands, 148.
- Mongru, *Chota Udaipur* (46 J/4; 22° 0' 30" : 74° 2' 30"), Cretaceous limestone. P. N. B., **M**, XXI, 31; *Namadoceras*. E. V., **R**, XXXVI, 124 (Pls. xvi, xvii).
- Mongrodih, *Hazaribagh* (72 L/8; 24° 10' : 86° 20'), pyroxene-plagioclase-rocks. T. H. H., **R**, XXVIII, 137 (Pl. ix, figs. 1-4); XXIX, 23.
- Mong-ta (Than-say), *Yunnan* (92 K/15; 25° 18' : 98° 52'), Permo-Carboniferous fossils. J. C. B., **R**, XLVII, 248.
- Mong-Ting, *N. Shan States* (93 F/13; 22° 46' 30" : 97° 52'), coal, analyses. T. D. L., **M**, XXXIX, pt. 2, 369.

- Mong-Tung, *N. Shan States* (93 F/12; 22° 1' 30" : 97° 42'), Chaung-Magyi series. T. D. L., **M**, XXXIX, pt. 2, 52.
- Mong-wan, *Yunnan* (92 H/15; 24° 18' : 97° 50'), lacustrine deposits. J. C. B., **R**, XLIII, 202.
- Mong-Yai, *N. Shan States* (93 J/3; 22° 25' 30" : 98° 2'), volcanic rocks, Bawldwin series. T. D. L., **M**, XXXIX, pt. 2, 56.
- Mong-yaw, *N. Shan States* (93 I/4; 23° 1' : 98° 7'), oolitic limestone with foraminifera. T. D. L., **M**, XXXIX, pt. 2, 191 (Pl. xii).
- Mong-yok, *N. Shan States* (93 E/8; 23° 13' : 97° 18'), outliers of Plateau Limestone. H. H. H., **R**, XLVII, 34.
- Mong-you, *Yunnan* (92 P/14; 24° 37' : 99° 48'), Kao-liang beds, pre-Cambrian. J. C. B., **R**, XLVII, 264.
- Monighat, *Chhindwara* (55 N/2; 22° 41' : 79° 1'), 'Upper Damuda'—Mahadeva boundary. J. G. M., **M**, II, 191.
- Monohordi, *Dacca* (79 I/9; 23° 47' : 90° 37'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 330.
- Montgomery, *Punjab* (44 F/2; 30° 39' 30" : 73° 6'), geodetic station. R. D. O., **M**, XLII, 232.
- Monyo, *Thurrawaddy* (85 O/9; 17° 59' : 95° 30'), alluvial gold. W. T., **R**, III, 26; Irrawadian gravels. **M**, X, 241; E. H. P., **M**, XL, 52.
- Monywa, *L. Chindwin* (84 N/4; 22° 6' : 95° 8'), volcanic rocks. E. J. J., **R**, XX, 176; E. H. P., **M**, XL, 46; building stone. **R**, LXI, 27; copper-ore, 28; ferruginous conglomerate in alluvium, 104; earthquakes : Burma, 1912. J. C. B., **M**, XLII, 59; Srimangal, 1918. M. S., **M**, XLVI, 33.
- Moodoor (Mandiyur), *S. Arcot* (58 I/10; 11° 44' 30" : 78° 44' 30"), iron-ore beds. W. K., **M**, IV, 294.
- Moodwaram (Muddavaram), *Kurnool* (57 I/3; 15° 30' : 78° 6'), steatite. W. K., **M**, VIII, 166 = Maddawaram.
- Moogetalah (Mukteswarapuram), *Kistna* (65 D/1; 16° 49' : 80° 4' 30"), Kurnool series, section. R. B. F., **M**, VIII, 298 (Pl. viii, fig. 1); turgite, analysis. F. R. M., **R**, XIV, 304.
- Moonghee (Mungi), *Ahmednagar* (47 M/7; 19° 24' 30" : 75° 27'), mammalian bones. W. T. B., **R**, I, 61; agate flake in alluvium. T. O., **R**, I, 65 (Pl. i).
- Moonimuddagoo (Munimadagu), *Kurnool* (57 E/15; 15° 16' : 77° 58' 30"), diamond mines. W. K., **M**, VIII, 103.
- Moonimullay (Muni Malai), *Salem* (57 L/8; 12° 5' : 78° 20'), trap dyke. W. K., **M**, IV, 332.
- Moonjhlao, *Surat* (46 G/3; 21° 19' : 73° 5'), nummulitic limestone and laterite. W. T. B., **M**, VI, 368.
- Moonsyaree, *Almora* (62 B/8; 30° 6' : 80° 16'), orpiment. A. W. L., **R**, II, 88 = Munsiri.
- Mooraconda (Moravakonda), *Kurnool* (56 I/8; 16° 0' 30" : 78° 16'), Koil-Kuntla shales, section. W. K., **M**, VIII, 46.
- Moorbar (Murbad), *Thana* (47 E/7; 19° 15' : 73° 24'), basaltic dykes. G. T. Clark, **R**, XIII, 72 (Pl. ii).
- Moorgod, *Belgaum* (48 I/13; 15° 53' : 74° 55' 30"), alluvial gold. R. B. F., **R**, VII, 141.

- Moorleedeeh, *Manbhūm* (73 I/6; 23° 44' : 86° 17'), Raniganj beds, section. T. W. H. H., **M**, V, 318=Murulidih.
- Mooreop, *Palamau* (73 A/9; 23° 49' : 84° 37'), Barakar-Raniganj section. V. B., **M**, XV, 60=Murup.
- Moorwara, *Jubbulpore* (64 A/5; 23° 50' : 80° 23'), L. Vindhyan limestone, quarries. F. R. M., **M**, VII, 114=Murwara.
- Moosalbali, *Singhbhum* (73 J/6; 22° 31' : 86° 27' 30"), apatite-magnetite rock. L. L. F., **R**, XXXVI, 128=Musaboni and Mushabani.
- Mootakoola (Mutukula), *Kurnool* (56 P/12; 16° 9' 30" : 79° 32'), cleavage in Cuddapah beds. W. K., **M**, VIII, 138 (fig.); Cumbum limestone, 231.
- Mooticoorchy (Mullakurichchi), *Trichinopoly* (58 M/7; 11° 21' 30" : 79° 15' 30"), Ariyalur stage, fossils. H. F. B., **M**, IV, 142.
- Mootonaickenputty (Murtinayakampatti), *Salem* (58 I/4; 11° 8' : 78° 14'), magnesite. W. K., **M**, IV, 318.
- Mootum (Muttampatti), *Trichinopoly* (58 J/5; 10° 59' 30" : 78° 26'), crystalline limestone. W. K., **M**, IV, 276.
- Mopani, *Narsinghpur* (55 J/14; 22° 45' : 78° 50'), coalfield, section. J. G. M., **M**, II, 169 (fig.); trap dykes, 226; Mahadeva boundary, 232=Mohpani.
- Mora, *Hyderabad, Sind* (40 H/2; 24° 33' : 69° 6'), Indus dam. R. D. O., **M**, XLVI, 82.
- Mora, *Jaipur* (54 B/10; 26° 42' : 76° 32' 30"), hot spring. T. O., **M**, XIX, 133=Garh and Moran.
- Mora Bhandari, *Jaipur* (54 B/13; 26° 48' 30" : 76° 49'), steatite. C. A. H., **R**, XIII, 250; F. R. M., **R**, XXII, 64; J. R. Royle, **R**, XXIII, 125; A. M. H., **R**, XLVIII, 200.
- Morad, *Idar* (46 E/1; 23° 58' : 73° 1'), calc-gneiss. C. S. M., **M**, XLIV, 12; Idar granite, 119.
- Moradabad, *United Provinces* (53 L/13; 28° 50' : 78° 46'), meteorite. J. C. B., **M**, XLIII, 240.
- Moran, *Jaipur* (54 B/10; 26° 42' : 76° 32' 30"), Delhi series, junction with Aravallis. A. M. H., **R**, XLVIII, 185=Garh and Mora.
- Moran R., *Hoshangabad* (55 F/11; 22° 20' : 77° 36'), temperature in boring. H. B. M., **R**, X, 46=Morun R.
- Morappur, *Salem* (57 L/8; 12° 7' : 78° 19'), corundum. C. S. M., **R**, XXIX, 46.
- Morar, *Gwalior* (54 J/4; 26° 14' : 78° 13'), Gwalior shales and trap. C. A. H., **R**, III, 35, 38.
- Moré, *Ladakh* (52 G/15; 33° 16' : 77° 52'), geodetic station. R. D. O., **M**, XLII, 254, 258.
- Mori, *Idar* (46 E/10; 23° 34' : 73° 36'), magnetite in phyllite. C. S. M., **M**, XLIV, 113 (Pl. xiii, fig. 6).
- Mori Lasht, *Chitral* (42 D/4; 36° 5' : 72° 3'), hippuritic limestone. H. H. H., **R**, XLV, 287.
- Moriani (Mariani), *Sibsagar* (83 J/6; 26° 39' : 94° 19'), Coal Measures. R. R. S., **M**, XLI, 16.
- Morijo, *Jaipur* (45 M/16; 27° 9' 30" : 75° 46'), Aravalli granite. A. M. H., **R**, LIV, 352.
- Morlem, *Goa* (48 I/2; 15° 35' 30" : 74° 2' 30"), manganese-ore. L. L. F., **M**, XXXVII, 984, 989.

- Mormugao, *Goa* (48 E/15; 15° 24' : 73° 47'), alum efflorescence. L. L. F., **R**, XXXVI, 312 (Pl. xliii).
- Morne R., *Surguja* (64 I/13; 23° 48' : 82° 48'), coal seams. C. L. G., **M**, XV, 145; Gondwana beds, sections, 178.
- Morni, *Ambala* (53 F/2; 30° 41' : 77° 5'), lake. H. B. M., **M**, III, pt. 2, 157.
- Morsi, *Amraoti* (55 K/3; 21° 20' : 78° 1'), manganese-ore. L. L. F., **M**, XXXVII, 691.
- Morun R., *Hoshangabad* (55 F/11; 22° 20' : 77° 36'), L. Damuda beds. J. G. M., **M**, II, 149; coal seam, 269=Moran R.
- Morvi, *Kathiawar* (41 J/13; 22° 49' : 70° 50'), Wadhwan sandstones, inliers. F. F., **M**, XXI, 86.
- Morwaie (Murwai), *Palamau* (73 A/1; 23° 46' : 84° 5' 30"), iron-ore. V. B., **M**, XV, 97, 117.
- Moshoor (Mosur), *N. Arcot* (57 O/12; 13° 5' : 79° 43'), Rajmahal beds, section. R. B. F., **M**, X, 99.
- Mosul, *Iraq* (36° 20' : 43° 8'), gypsum as ornamental stone. E. H. P., **M**, XLVIII, 31.
- Mosul, *Sirohi* (45 C/16; 25° 6' : 72° 54'), Malani rhyolite, contact with Aravallis. E. H. P., **R**, LX, 113.
- Mosulukul, *Raichur* (56 H/3; 16° 23' : 77° 1'), red syenitic gneiss. R. B. F., **M**, XII, 257.
- Mota, *Surat* (46 G/4; 21° 10' 30" : 73° 4'), lateritic beds, Eocene. A. B. W., **R**, I, 31.
- Motaka (Mothoka), *Patiala* (54 A/1; 27° 49' : 76° 4' 30"), copper-ore. P. N. B., **R**, XXXIII, 58=Mokata.
- Motapolliam (Mettupalaiyam), *Chingleput* (57 O/16; 13° 13' : 79° 49'), U. Gondwana beds. R. B. F., **M**, X, 88.
- Motepolliam (Mettupalaiyam), *S. Arcot* (58 M/6; 11° 40' 30" : 79° 23' 30"), Cuddalore sandstones. H. F. B., **M**, IV, 170.
- Mothala, *Cutch* (41 E/4; 23° 13' : 69° 8'), earthquake, 1819. R. D. O., **M**, XLVI, 108.
- Motinala, *Mandla* (64 B/15; 22° 21' : 80° 54'), Chilpi Ghat beds. W. K., **R**, XVIII, 189; metamorphic rocks. P. N. B., **A. R.**, 1898, 42.
- Motipura, *Baroda* (46 F/8; 22° 12' : 73° 29' 30"), marble. T. H. H., **R**, XXXIX, 258.
- Motipura, *Bundi* (45 O/14; 25° 33' 30" : 75° 56'), limestone in Jhiri shales. A. L. C., **R**, LX, 171 (fig.).
- Mottumalai, *Wynaad* (58 A/2; 11° 36' : 76° 5'), biotite-granite. H. H. H., **M**, XXXIII, pt. 2, 17.
- Motur, *Chhindwara* (55 J/11; 22° 17' 30" : 78° 33'), Motur clays. H. B. M., **M**, X, 161; E. J. J., **M**, XXIV, 47.
- Mouhari, *Korea* (64 I/3; 23° 26' : 82° 0' 30"), coal seam. T. W. H. H., **M**, XXI, 243.
- Moulmein, *Amherst* (94 H/11; 16° 29' : 97° 38'), Carboniferous limestone, fossils. W. T., **M**, X, 326; Burma earthquake, 1912. J. C. B., **M**, XLII, 74; Pegu earthquake, 1930. **R**, LXV, 236=Maulmain.
- Moulpatna, *Kalahandi* (65 I/15; 19° 24' : 82° 52' 30"), dioritic rocks and gneiss. V. B., **R**, X, 184.



- Moulvoy (Malvai), *Trichinopoly* (58 I/16;  $11^{\circ} 3' : 78^{\circ} 58'$ ), fossil wood in Trichinopoly beds. H. F. B., **M**, IV, 118 (fig.).
- Moung Magan, *Tavoy* (95 J/4;  $14^{\circ} 9' : 98^{\circ} 6'$ ), hot spring. T. O., **M**, XIX, 153.
- Moweswar, *Birbhum* (73 M/13;  $23^{\circ} 59' : 87^{\circ} 46'$ ), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 325.
- Mowphlang, *Khasi Hills* (78 O/15;  $25^{\circ} 27' : 91^{\circ} 45' 30''$ ), cleavage in Shillong slates. T. O., **M**, I, 126=*Maophlang and Moflong*.
- Mozaffarabad, *Kashmir* (43 F/7;  $34^{\circ} 22' : 73^{\circ} 28'$ ), Eocene limestone. R. L., **R**, XII, 16; E. H. P., **M**, XL, 440=*Musafirabad and Muzaffarabad*.
- Mrungpara (Nyaungbinchaing), *Akyab* (85 A/13;  $19^{\circ} 58' : 93^{\circ} 0'$ ), mud vents. E. H. P., **M**, XL, 199.
- Much, *Bolan Pass* (34 O/5;  $29^{\circ} 52' : 67^{\circ} 19'$ ), Ranikot beds, section. C. L. G., **M**, XVIII, 22=*Mach*.
- Mucherla, *Warangal* (65 C/7;  $17^{\circ} 23' 30'' : 80^{\circ} 16'$ ), Cuddapah beds. R. B. F., **R**, XVIII, 23.
- Muchia, *Ranchi* (73 F/5;  $22^{\circ} 52' 30'' : 85^{\circ} 28'$ ), metamorphosed tuffs. J. A. D., **M**, LIV, 67.
- Muchwa pass, *Santal Parganas* (72 O/12;  $25^{\circ} 2' : 87^{\circ} 32'$ ), Rajmahal plants. O. F., **R**, IX, 39.
- Mud Gorge, *Sibi* (34 N/7;  $30^{\circ} 23' : 67^{\circ} 23'$ ), coal seams. W. K., **R**, XXII, 149; R. R. S., **M**, XLI, 32.
- Mud Point, *24 Parganas* (79 C/1;  $21^{\circ} 56' : 88^{\circ} 6'$ ), pisolitic manganese-ore. L. L. F., **M**, XXXVII, 632.
- Mudanur (Mudenuru), *Bellary* (48 N/13;  $15^{\circ} 0' : 75^{\circ} 58'$ ), fault-rock. R. B. F., **M**, XXV, 159.
- Mudanur, *Gulbarga* (56 D/6;  $16^{\circ} 36' : 76^{\circ} 29' 30''$ ), sulphur manufacture. R. B. F., **M**, XII, 265.
- Muddakurray, *Coimbatore* (58 B/13;  $10^{\circ} 54' : 76^{\circ} 58'$ ), marble. W. K., **M**, IV, 369=*Madukarai*.
- Muddam, *Trichinopoly* (58 I/16;  $11^{\circ} 2' : 78^{\circ} 49'$ ), coral-reef limestone, horizon. H. F. B., **M**, IV, 59 (fig.); Utatur fossils, 81; Trichinopoly fossils, 113.
- Muddavaram, *Kurnool* (57 I/3;  $15^{\circ} 30' : 78^{\circ} 6'$ ), magnesite and steatite. L. L. F., **R**, XLVI, 135, 292=*Maddawaram*.
- Muddibehal, *Bijapur* (56 D/3;  $16^{\circ} 20' : 76^{\circ} 8'$ ), sandstones, Bhima series. R. B. F., **M**, XII, 145; 'kankar', 249.
- Muddun Mehal, *Jubbulpore* (55 M/16;  $23^{\circ} 9' : 79^{\circ} 56'$ ), granite. J. G. M., **M**, II, 121 (fig.).
- Mudgal, *Raichur* (56 D/8;  $16^{\circ} 1' : 76^{\circ} 26'$ ), granitoid gneiss. R. B. F., **M**, XII, 42.
- Mudhaul (Mandhol), *Dehra Dun* (53 F/13;  $30^{\circ} 55' 30'' : 77^{\circ} 48'$ ), fault. R. D. O., **R**, XVI, 193.
- Mudhol, *S. Mahatta Jagirs* (47 P/7;  $16^{\circ} 20' : 75^{\circ} 17'$ ), aragonite in Deccan trap. R. B. F., **M**, XII, 191; 'kankar', 249.
- Mudhooban R., *Manbhum* (73 I/1;  $23^{\circ} 45' : 86^{\circ} 12'$ ), Raniganj beds, section. T. W. H. H., **M**, V, 314; coal seams, 330.
- Mudhopur, *Santal Parganas* (72 P/11;  $24^{\circ} 17' : 87^{\circ} 43'$ ), iron-ore, assay. V. B., **M**, XIII, 248.

- Mudlapad (Madalpalli), *Warangal* (85 C/7; 17° 23' 30" : 80° 19'), Cuddapah limestone. R. B. F., **R**, XVIII, 23.
- Mudon, *Amherst* (94 H/11; 16° 15' 30" : 97° 44'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 237.
- Mudoor (Maddur), *Mysore* (57 H/2; 12° 35' : 77° 3'), meteorite, J. C. B., **M**, XLIII, 241.
- Mudukan Kulam (Mukkulam), *Ramnad* (58 K/2; 9° 41' 30" : 78° 14'), lateritic gravels and sands. R. B. F., **M**, XX, 50.
- Mudunpoor, *Jhansi* (54 L/11; 24° 15' : 78° 41' 30"), low-level trap. H. B. M., **M**, II, 77, 85.
- Mugalur (Mogaluru), *Nalgonda* (65 D/6; 16° 38' : 80° 20'), diamond gravels. R. B. F., **R**, XVIII, 24.
- Mugger Pir, *Karachi* (35 P/1; 24° 59' : 67° 2'), hot spring. W. T. B., **M**, XVII, 182=Manga-Pir and Pir Mangal.
- Muggurkutta Nala, *Balaghat* (55 O/10; 21° 41' : 79° 41'), manganese-ore. L. L. F., **M**, XXXVII, 698.
- Muhair, *Gayu* (72 H/2; 24° 43' : 85° 9'), soapstone. H. B. M., **R**, II, 42.
- Muhammad Azim, *Quetta-Pishin* (34 N/10; 30° 38' : 67° 36'), Triassic fossils. E. V., **R**, XX XI, 166 (Pl. xvii); C. D., **R**, XXXIV, 15, 16 (Pls. iii, iv).
- Muhammad Bazar, *Birbhum* (73 M/9; 23° 59' : 87° 35'), supra-Panchet beds. W. T. B., **M**, III, 138=Mahomed Bazaar.
- Muhammadabad glacier, *Hunza* (42 L/11; 34° 19' : 74° 44'), advance, 1908. H. F. Bridges, **R**, XXXVII, 221.
- Muhowatand, *Palawan* (73 A/14; 23° 44' : 84° 50'), Barakar stage, section. A. J., **M**, LII, 54.
- Muhri, *Punch* (43 K/1; 33° 53' 30" : 74° 10' 30"), epidiorite, Panjal trap. D. N. W., **M**, LI, 297.
- Muinak, *Persia* (24 C/5; 29° 58' : 56° 27'), volcanic rocks, U. Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 68.
- Mujawar, *Ohhindwara* (55 J/12; 22° 1' : 78° 42' 30"), basal flow, Deccan trap. L. L. F., **R**, XLVII, 91.
- Mujgama, *Rewah* (63 H/16; 24° 6' 30" : 81° 49'), coal seam. T. W. H. H., **R**, XIV, 129.
- Mujgoa, *Bijawar* (54 P/10; 24° 37' : 79° 43'), iron mines. H. B. M., **M**, II, 45.
- Mujgoan, *Patarkechar* (63 D/13; 24° 55' : 80° 48'), diamond workings. H. B. M., **M**, II, 73=Majgawan.
- Mujhigram, *Chitral* (37 P/12; 36° 6' : 71° 41'), sulphur. E. H. P., **R**, LV, 28.
- Muji, *Kashgar* (42 I/8; 39° 1' : 74° 17'), metamorphic rocks. H. H. H., **R**, XLV, 318.
- Mujonia, *Singhbhum* (73 F/6; 22° 37' 30" : 85° 24'), chloritic phyllite. J. A. D., **M**, LIV, 41.
- Mujti, *Belgaum* (47 L/12; 16° 9' : 74° 34' 30"), L. Kaladgi beds. R. B. F., **M**, XII, 92.
- Mukai R., *Khasi Hills* (78 O/8; 25° 11' : 91° 23'), U. Tertiary sandstones, change in dip. R. W. P., **R**, LV, 164.
- Mukak, *Chagai* (30 G/12; 29° 6' : 61° 30'), flysch series, Cretaceous. E. V., **M**, XXXI, 254 (Pl. ix, fig. 14).

- Mukh, *Makran* (31K/7; 25° 26' : 62° 29' 30"), *Makran series*, mollusca. E. V., **M**, L, 31, 186.
- Mukoolee (Makoli), *Hazaribagh* (73 I/1; 23° 46' 30" : 86° 1' 30"), coal seam. T. W. H. H., **M**, VI, 53.
- Muktagachha, Muktigarchia, *Mymensingh* (78 L/5; 24° 46' : 90° 15' 30"), Bengal earthquake, 1885. C. S. M., **R**, XVIII, 205 (Pl. ix, fig. 7); earthquake, 1897. R. D. O., **M**, XXIX, 21, 294 (Pl. xxviii).
- Muktinath, *Nepal* (62 P/13; 28° 49' : 83° 53'), Triassic fossils. C. D., **M**, XXXVI, 351.
- Muls pass, *Kalat* (34 P/4; 28° 0' : 67° 3'), Khirthar-Nari sequence. E. V., **R**, XXXIV, 89, 174; XXXV, 63; Cretaceous fossils. XXXVI, 179; Jurassic anticline. XXXVIII, 193.
- Mulagam, *Vizagapatam* (65 N/12; 18° 13' 30" : 83° 37'), manganese-ore. L. L. F., **M**, XXXVII, 434, 1081.
- Mulagul, *Sylhet* (83 C/8; 25° 4' : 92° 20'), oil seepage. P. N. B., **A. R.**, 1902, 19.
- Mulbeck, Mulbekh, *Ladakh* (52 B/7; 34° 22' 30" : 76° 23'), Triassic beds. R. L., **R**, XIII, 45; **M**, XXII, 178.
- Muleli, *Kistna* (65 D/14; 16° 40' 30" : 80° 53'), old diamond mines. W. K., **M**, XVI, 253.
- Mulla Khel, *Mianwali* (38 P/1; 32° 55' 30" : 71° 10'), Jurassic-Siwalik beds, section. A. B. W., **M**, XVII, 261 (fig. 5); R. R. S., **R**, XXXI, 14 (fig. 2)=Malla Khel.
- Mullapoor (Malapuram), *Kurnool* (57 M/2; 15° 31' : 79° 10' 30"), rippling in Cum-bum quartzite. W. K., **M**, VIII, 237.
- Mullarpore, *Birbhum* (72 P/12; 24° 5' : 87° 42' 30"), iron-ore. T. W. H. H., **M**, XIII, 244.
- Mullawarum, *Guntur* (56 P/6; 16° 36' : 79° 28' 30"), old diamond workings. W. K., **M**, VIII, 110.
- Mulliagora, *Rewah* (64 E/3; 23° 20' : 81° 3'), coal seam. J. G. M., **M**, II, 269=Maliagura.
- Mulliahara (Maliara), *Bankura* (73 M/3; 23° 28' 30" : 87° 14'), Raniganj stage (?). E. H. P., **R**, LXII, 142.
- Mulliakerra (Malliyakarai), *S. Arcot* (58 I/6; 11° 35' : 78° 30'), iron-ore. W. K., **M**, IV, 294.
- Mullireddypolliam (Mallareddikhandrika), *Chittoor* (57 O/16; 13° 14' 30" : 79° 46' 30"), Jurassic beds, section. R. B. F., **M**, X, 87 (fig.).
- Mulloor (Mallur), *Trichinopoly* (58 M/4; 11° 4' 30" : 79° 5'), basal beds, Ariyalur stage. H. F. B., **M**, IV, 131.
- Mullur, *Travancore* (58 H/3; 8° 22' : 77° 0' 30"), Warkalli beds. R. B. F., **R**, XVI, 27.
- Multai, *Betul* (55 K/5; 21° 46' : 78° 16'), source of Tapti river. E. H. P., **R**, LV, 36.
- Multan, *Punjab* (39 N/8; 30° 11' : 71° 27'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 177.
- Mulwa Tal, *Naini Tal* (53 O/11; 29° 20' : 79° 39'), origin of lake. R. D. O., **R**, XIII, 280=Malwa Tal.
- Munai, *Idar* (46 E/1; 23° 45' 30" : 73° 9'), Delhi quartzite. C. S. M., **M**, XLIV, 83.

- Munar (Gul Dara) Kotal, *Afghanistan* (38 F/7;  $34^{\circ} 24' 30''$  :  $69^{\circ} 19'$ ), metamorphic rocks. H. H. H., **M**, XXXIX, 17.
- Munatoo, *Palamau* (73 A/13;  $23^{\circ} 53'$  :  $84^{\circ} 56'$ ), folding in coal seams. A. J., **M**, LII, 40.
- Mundaijodi, *Gangpur* (73 B/16;  $22^{\circ} 11'$  :  $84^{\circ} 56'$ ), amphibole garnet grit, Dharwar. J. M. M., **R**, XXXI, 71.
- Mundakati, *Saraikela* (73 F/13;  $22^{\circ} 47' 30''$  :  $85^{\circ} 58'$ ), kaolin. E. H. P., **R**, LVI, 30.
- Mundanthurai, *Tinnevely* (58 H/6;  $8^{\circ} 40' 30''$  :  $77^{\circ} 21'$ ), reservoir site. E. H. P., **R**, LXI, 43.
- Mundar, *Ali-Rajpur* (46 J/3;  $22^{\circ} 28'$  :  $74^{\circ} 15'$ ), crystalline limestone. W. T. B., **M**, VI, 321.
- Mundesor, *Gwalior* (45 P/4;  $24^{\circ} 3' 30''$  :  $75^{\circ} 5'$ ), Vindhyan boundary. H. B. M., **R**, I, 70=Mandsaur.
- Mundeta, *Jaipur* (45 M/12;  $27^{\circ} 1'$  :  $75^{\circ} 34'$ ), Aravalli quartzites and schists. A. M. H., **R**, LIV, 357.
- Mundeti, *Idur* (46 E/1;  $23^{\circ} 50'$  :  $73^{\circ} 10'$ ), Mundeti series. C. S. M., **M**, XLIV, 54, 57; Delhi quartzite, 83.
- Mundhan, *Cutch* (41 A/13;  $23^{\circ} 45'$  :  $68^{\circ} 56'$ ), old channel of Indus. R. D. O., **M**, XLVI, 82.
- Mundi, *Jhelum* (43 G/4;  $33^{\circ} 1' 30''$  :  $73^{\circ} 8' 30''$ ), Chinji fossils. D. N. W., **M**, LI, 283.
- Mundi, *Punjab* (53 A/14;  $31^{\circ} 42' 30''$  :  $76^{\circ} 56'$ ), rock-salt, quality and origin. H. B. M., **M**, III, pt. 2, 61=Mandi.
- Mundlaisur, *Indore* (46 N/12;  $22^{\circ} 10' 30''$  :  $75^{\circ} 40'$ ), contact of trap with granite. W. T. B., **M**, VI, 290 (fig.)=Mandlesar.
- Mundra, *Cutch* (41 F/9;  $22^{\circ} 50'$  :  $69^{\circ} 43'$ ), earthquake, 1819. R. D. O., **M**, XLVI, 108.
- Mundru, *Ranchi* (73 F/5;  $22^{\circ} 58'$  :  $85^{\circ} 17'$ ), gneiss. V. B., **M**, XVIII, 131.
- Munemadkam, *Ranchi* (73 F/1;  $22^{\circ} 53'$  :  $85^{\circ} 12' 30''$ ), marginal facies of granite. L. A. N., **R**, LXV, 499.
- Mungalum, *Trichinopoly* (58 I/8;  $11^{\circ} 3'$  :  $78^{\circ} 29'$ ), artificial formation of alluvium. W. K., **M**, IV, 364.
- Mungeli, *Jubbulpore* (64 A/2;  $23^{\circ} 30'$  :  $80^{\circ} 14'$ ), pyrolusite. P. N. B., **R**, XXI, 84=Mangoli.
- Mungrool, *Amraoti* (55 H/14;  $20^{\circ} 36'$  :  $77^{\circ} 49'$ ), weathering of trap. W. T. B., **R**, I, 63.
- Mungumaputty, *Trichinopoly* (58 I/7;  $11^{\circ} 23'$  :  $78^{\circ} 30'$ ), trap dyke. W. K., **M**, IV, 330.
- Mung-you, *Yunnan* (92 P/14;  $24^{\circ} 37'$  :  $99^{\circ} 48'$ ), dolomitic limestone. J. C. B., **R**, XLVII, 227.
- Muniting, *Naga Hills* (83 J/13;  $26^{\circ} 53'$  :  $94^{\circ} 58'$ ), sinuosity of folding in Tertiaries. E. H. P., **M**, XI, 315.
- Munjewara, *Chanda* (64 D/2;  $20^{\circ} 30'$  :  $80^{\circ} 4'$ ), Dharwar rocks (?). T. H. H., **R**, XXXVIII, 69.
- Munnicondam Choultry (Manikandapuram), *Trichinopoly* (58 J/10;  $10^{\circ} 44'$  :  $78^{\circ} 38'$ ), quasi-porphyrific gneiss. W. K., **M**, IV, 270.

- Munnikerri, *Belgaum* (47 P/4; 16° 9' 30" : 75° 4'), manganese-ore. L. L. F., **M**, XXXVII, 633=Manikeri.
- Munnygoody (Managedi), *Trichinopoly* (58 M/4; 11° 8' : 79° 14' 30"), 'red soil', analysis. H. F. B., **M**, IV, 185.
- Munooa, *Huzariagh* (73 E/6; 23° 39' : 85° 29'), Talchir shale. A. J., **M**, LII, 18.
- Munshiganj, *Dacca* (79 I/10; 23° 33' : 90° 32'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Munsiari, *Almora* (62 B/8; 30° 6' : 80° 16'), ovoid stalactites. T. W. H. H., **R**, XI, 184; arsenic-ore. T. H. H., **R**, XXXV, 28—Moonsyaree.
- Munsur, *Nagpur* (55 O/7; 21° 24' : 79° 16'), manganese-ore, analysis. F. R. M., **R**, XII, 73=Mansar.
- Mura, *Betul* (55 F/16; 22° 12' 30" : 77° 46'), Talchir beds. H. B. M., **R**, VIII, 76.
- Muradwa, *Kalat* (39 D/5; 28° 47' : 68° 21'), Baluchistan earthquake, 1909. A. M. H., **R**, XLI, 29.
- Muraid, *Mymensingh* (78 L/2; 24° 31' 30" : 90° 8'), meteorite. G. V. H., **R**, LX, 144 (Pls. VII-X).
- Murait, *Jubbulpore* (55 M/15; 23° 26' : 79° 58'), pyrochlore. P. N. B., **R**, XXI, 87.
- Murala, *Bijapur* (56 D/3; 16° 18' 30" : 76° 13'), Deccan trap, section. R. B. F., **M**, XII, 185.
- Murasa, *Ali-Rajpur* (46 J/12; 22° 14' 30" : 74° 32' 30"), *Platyceras minto*. E. V., **R**, XXXVI, 125 (Pls. xiv, xv).
- Murat, *Attock* (43 C/14; 33° 30' 30" : 72° 53'), oilfield. E. H. P., **M**, XL, 390 (Pl. lxxix).
- Murda Khel, *Kohat* (38° K/15; 33° 20' : 70° 59'), inversion of Nummulitic series. A. B. W., **M**, XI, 186 (Pl. i, fig. 5).
- Murdanpur, *Betul* (55 F/16; 22° 14' : 77° 56' 30"), coal seams. J. G. M., **M**, II, 298; W. T. B., **R**, I, 9=Mardanpur.
- Murdanpur, *Bhopal* (55 F/6; 22° 39' : 77° 28'), ossiferous gravel. W. T., **M**, II, 280; Vindhyan beds. W. T. B., **M**, VI, 243 (Pl. vi).
- Murda hill, *Quetta-Pishin* (34 N/4; 30° 10' : 67° 56'), Jurassic-Cretaceous beds. C. L. G., **R**, XXIX, 8.
- Murdoa, *Rewah* (64 E/15; 23° 15' 30" : 81° 53'), coal seam. T. W. H. H., **M**, XXI, 243.
- Murdi, *Sangli* (48 M/16; 15° 8' : 75° 45' 30"), Dharwar schists. J. M. M., **R**, XXXIV, 109.
- Murero, *Santal Parganas* (72 O/12; 25° 8' 30" : 87° 30'), Rajmahal plants. O. F., **R**, IX, 37, 39.
- Murespan, *Persia* (17 O/13; 29° 56' : 55° 53'), galena and malachite. G. E. P., **M**, XLVIII, pt. 2, 69.
- Murghabi, *Russian Turkestan* (42 F/16; 38° 8' : 73° 58'), calc-schists and slates. H. H. H., **R**, XLV, 314.
- Murghusri, *Drug* (64 C/14; 21° 42' 30" : 80° 59'), felsite. P. N. B., **R**, XXI, 59.
- Murgisthang glacier, *Ladakh* (52 E/12; 35° 5' : 77° 35'), condition in 1907. A. Neve, **R**, XL, 342 (Pl. 50)=Mamostong glacier.

- Murhasan, *Jubbulpore* (55 M/15; 23° 21' : 80° 0'), manganese-ore. P. N. B., **R**, XXI, 83=Marhasan.
- Murhu, *Ranchi* (73 F/5; 22° 58' : 85° 17'), wood-gneiss. J. A. D., **M**, LIV, 120; garnetiferous hornblende-schist, 126; tourmaline-pegmatite. L. A. N., **R**, LXV, 501.
- Muria, *Chhindwara* (55 N/1; 22° 45' : 70° 7'), fire-clay. E. H. P., **R**, LXII, 34.
- Muria hill, *Saugor* (55 M/4; 23° 14' : 79° 4'), inversion of Vindhyan. F. R. M., **M**, VII, 75.
- Murigudda, *Raichur* (57 A/14; 15° 32' : 76° 46'), brecciated quartz. R. B. F., **R**, XXII, 32, 39.
- Murkatola, *Kanker* (64 H/7; 20° 18' : 81° 20'), pottery-clay. P. N. B., **A. R.**, 1899, 39.
- Murkhun (Mol-khun), *Hunza* (42 L/14; 36° 37' : 74° 52'), hippuritic limestone (?). H. H. H., **R**, XLV, 299.
- Murma, *Korea* (64 I/11; 23° 20' : 82° 37'), coal seam. L. L. F., **M**, XLI, 190, 191, 194, 217.
- Murna R., *Rewah* (64 E/7; 23° 21' : 81° 21'), Barakar plants. T. W. H. H., **M**, XXI, 179, 189.
- Murpipria, *Narsinghpur* (55 N/5; 22° 51' : 79° 21'), 'Upper Damuda' (Lameta) coal seam, section. J. G. M., **M**, II, 179.
- Murree, *Rawalpindi* (43 G/5; 33° 54' : 73° 23'), sandstones and Eocene beds. H. B. M., **M**, III, pt. 2, 90; Trias-Tertiary beds, section. W. W., **R**, V, 15 (fig.); geology of neighbourhood. A. B. W., **R**, VI, 61; passage from Kuldana to Murree beds. C. S. M., **M**, XXVI, 225 (fig.); Kangra earthquake, 1905. XXXVIII, 216=Marī.
- Murrye (Murīa), *Chhindwara* (55 N/1; 22° 45' 30" : 79° 7' 30"), basic dyke. J. G. M., **M**, II, 225 (fig.).
- Murshidabad, *Bengal* (78 D/8; 24° 11' : 88° 16'), earthquake, 1897. R. D. O., **M**, XXIX, 311 (fig.); fissures, 110, 328.
- Murthala, *Sirohi* (15 D/14; 24° 31' : 72° 49'), lime burning. E. H. P., **R**, LIX, 49.
- Murulidih, *Manbhum* (73 I/6; 23° 44' : 86° 17'), coal seams. R. R. S., **M**, XII, 52=Moorleedeoh.
- Murup, *Palamau* (73 A/9; 23° 49' : 84° 37'), Barakar plants. O. F., **R**, XIII, 65 =Mooroop.
- Murwara, *Jubbulpore* (64 A/5; 23° 50' : 80° 23'), limonite, analysis. F. R. M., **R**, XVI, 108; L. Vindhyan limestone, analysis, 111; proposed site for iron works, 115=Moorwara.
- Murwari, *Panna* (63 D/7; 24° 20' : 80° 17'), dam-site. T. H. H., **R**, XXXVIII, 39.
- Murwurra hill, *Banda* (63 G/4; 25° 1' 30" : 81° 8'), iron-ore. H. B. M., **M**, II, 81.
- Murye, *Rewah* (63 H/4; 24° 7' : 81° 14'), L. Vindhyan boundary. F. R. M., **M**, VII, 33; limestone, 35=Marai.
- Musaboni, *Singhbhum* (73 J/6; 22° 31' : 86° 27' 30"), apatite-magnetite rock. H. H. H., **R**, L, 14=Moosalbali and Mushabani.
- Musafirabad, *Kashmir* (43 F/7; 34° 22' : 73° 28'), nummulitic limestone. R. L., **R**, XV, 20=Mozaffarabad and Muzaffarabad.

- Musakhel, *Mianwali* (38 P/10; 32° 38' : 71° 44' 30"), Carboniferous-Tertiary beds. A. B. W., **M**, XIV, 252.
- Muscat, *Oman* (26 I/10; 23° 38' : 58° 35'), serpentine, Oman series. G. E. P., **M**, XXXIV, pt. 4, 11, 88; nummulitic limestone, 19; miliolite, 55; raised beaches, 60; steatitic clay, 157=Maskat.
- Mushabani, *Singhbhum* (73 J/6; 22° 31' : 86° 27' 30"), kyanite-rock. J. A. D., **M**, LII, 238; copper lodes. E. H. P., **R**, LXIII, 33=Moosalbali and Musaboni.
- Mushti Kuntla, *Warangal* (65 C/4; 17° 2' : 80° 14'), pistacite-gneiss. R. B. F., **R**, XVIII, 15.
- Musila Cheruvu, *Kurnool* (57 I/3; 15° 29' 30" : 78° 4'), steatite and magnesite. T. H. H., **R**, XXXIX, 275; L. L. F., **R**, XLVI, 135, 292.
- Muskol R., *Russian Turkestan* (42 F/6; 38° 44' : 73° 20'), carbonaceous slates. H. H. H., **R**, XLV, 316.
- Muskondli, *Tumkur* (57 C/11; 13° 21' 30" : 76° 43' 30"), manganese-ore. L. L. F., **M**, XXXVII, 1152.
- Musmuta, *Patiala* (54 A/1; 27° 53' : 76° 1'), mica. P. N. B., **R**, XXXIII, 58.
- Musra, *Korea* (64 I/3; 23° 22' : 82° 13' 30"), coal seams. T. W. H. H., **M**, XXI, 243.
- Mussoorie, Musuri, *Dehra Dun* (53 J/3; 30° 27' : 78° 5'), phosphatic beds. W. K., **R**, XVII, 198; H. B. M., **R**, XVIII, 64; analyses. F. R. M., **R**, XVIII, 126; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 95 (figs. & Pls. xvi, xxi & xxii)=Masuri.
- Mustagh-ata, *Kashgar* (42 N/3; 38° 16' : 75° 8'), granite. H. H. H., **R**, XLV, 323.
- Mutguda, *Bankura* (73 J/13; 22° 46' 30" : 86° 54'), pot-stone. V. B., **M**, XVIII, 81.
- Muth, *Spiti* (53 I/1; 31° 57' 30" : 78° 2'), Triassic fossils. F. S., **M**, V, 30; Carboniferous-Rhætic beds. C. L. G., **M**, XXIII, 63, 218 (Pl. iv); Ordovician conglomerate. H. H. H., **M**, XXXVI, 18, 105, 108; quartzite, 23, 28; Carboniferous, 35, 39, 42; Trias, 68, 74, 78 (Pl. iv); basic dykes, 98; iron-ore, 102; L. Trias. C. D., **M**, XXXVI, 220, 226; Ladinian stage, 272; Carnic stage, 288.
- Mutlagara, *Singhbhum* (73 J/6; 22° 38' 30" : 86° 22'), pot-stone. V. B., **M**, XVIII, 148=Matigara.
- Mutkooree (Matkuria), *Manbhum* (73 I/5; 23° 47' 30" : 86° 25'), needle shales, Talchir. T. W. H. H., **M**, V, 237.
- Mutra, *Hazaribagh* (73 E/5; 23° 51' 30" : 85° 18'), Talchir conglomerate. A. J., **M**, LII, 14.
- Mutrani, *Larkhana* (35 M/4; 27° 12' : 67° 14'), hot spring. W. T. B., **M**, XVII, 86.
- Muttalur, *Kurnool* (57 I/12; 15° 11' : 78° 34'), hot spring. T. O., **M**, XIX, 148.
- Mutvardeo, *Betul* (55 J/4; 22° 5' 30" : 78° 11'), Talchir beds, faulted boundary. J. G. M., **M**, II, 239 (fig.).
- Muttianna, *Simla* (53 E/8; 31° 12' 30" : 77° 24'), pyritous schist. F. R. M., **M**, V, 166=Mattiana.
- Mutira, *United Provinces* (54 E/11; 27° 29' : 77° 41'), geodetic station. R. D. O., **M**, XLII, 225; Cutch earthquake, 1819. **M**, XLVI, 114.

- Muttum, *Travancore* (58 H/8; 8° 7' : 77° 19'), sand dunes. R. B. F., **R**, XVI 32; monazite sands. G. H. T., **R**, XLIV, 189.
- Muzaffarabad, *Kashmir* (43 F/7; 34° 22' : 73° 28'), Subathu beds. R. L., **E**, XXII, 93; Himalayan syntaxis. D. N. W., **M**, LI, 198, 358; glass-making sand. E. H. P., **R**, LXII, 66—Muzaffarabad and Musafirabad.
- Muzaffarpur, *Bihar* (72 F/8; 26° 7' : 85° 23'), geodetic station. R. D. O., **M**, XLII, 225; Srimangal earthquake, 1918. M. S., **M**, XLVI, 33.
- Myaing, *Pakokku* (84 K/14; 21° 37' : 94° 51'), Pegu inlier, oil seepages. T. D. L., **R**, XL, 99; H. H. H., **R**, XLVII, 23; E. H. P., **M**, XL, 138; *Otodus*. M. S., **R**, XXXVIII, 294 (Pl. xxv, fig. 11); Eocene mammalia. G. E. P., **R**, XLVII, 42 (Pls. i-vi).
- Myan Khoun, *Amherst* (94 L/3; 16° 16' : 98° 3'), hot spring, saline. T. O., **M**, XIX, 152.
- Myanaung, *Henzadu* (85 N/7; 18° 17' : 95° 20'), Mogaung sands, section. W. T., **M**, X, 261; mud volcanoes. E. H. P., **M**, XL, 177; Pegu earthquake, 1930. J. C. B., **R**, LXV, 240.
- Myangabaing, *Thayetmyo* (85 M/4; 19° 5' 30" : 95° 13'), Tertiary gastropoda. E. V., **R**, LI, 340.
- Myankbingaywa, *Pakokku* (84 K/14; 21° 30' : 94° 53' 30"), Pegu inlier. E. H. P., **M**, XL, 138.
- Myaukmigon, *Thayetmyo* (85 M/6; 19° 32' : 95° 22'), Tertiary gastropoda. E. V., **R**, LI, 307, 340; LII, 84, 130; **M**, L, 302.
- Myauktin, *Thayetmyo* (85 M/7; 19° 28' 30" : 95° 21'), Tertiary gastropoda. E. V., **R**, LI, 318, 340; LIII, 84, 130.
- Myaungmya, *Burma* (85 L/14; 16° 36' : 94° 55'), laterite. E. H. P., **M**, XL, 52; Pegu earthquake, 1930. J. C. B., **R**, LXV, 239.
- Myaungu, *Minbu* (84 L/7; 29° 20' 30" : 94° 20' 30"), Tertiary gastropoda. E. V., **R**, LI, 314, 340; LIII, 84, 341.
- Myaungyaung, *Thaton* (94 C/15; 17° 24' 30" : 96° 54'), gneisses. E. H. P., **R**, LX, 80.
- Mya-waddi, Myawaddy, *Amherst* (94 L/10; 16° 41' : 98° 30' 30"), hot spring, saline. T. O., **M**, XIX, 152; sapphires and rubies. G. C., **R**, LV, 272; J. C. B., **R**, LVI, 96 (note); E. L. C., **R**, LX, 295.
- Myayeik, *L. Chindwin* (84 N/4; 22° 8' : 95° 0' 30"), igneous rocks. E. H. P., **R**, LXI, 106.
- Myokhanbaw, *Tavoy* (95 J/7; 14° 17' : 98° 26'), pseudo-foliation in granite. J. C. B., **M**, XLIV, 187; wolfram mine, 286.
- Myéun, *Shwebo* (84 N/13; 22° 59' : 95° 47'), Irrawadian beds. E. H. P., **R**, LXIII, 103.
- Myengyee (Mayingyi), *Mergui* (95 P/4; 12° 14' : 99° 3'), tin-ore. P. N. B., **R**, XXVI, 163.
- Myenigon, *Mandalay* (93 C/5; 21° 59' : 96° 24'), graptolite beds. T. D. L., **M**, XXXIX, pt. 2, 170.
- Myotye, *Yamethin* (93 D/4; 20° 5' : 96° 0' 30"), U. Pegu fossils. E. H. P., **R**, LVIII, 51.
- Myher (Maihar), *Baghelkhand* (63 D/15; 24° 16' : 80° 45' 30"), coarse-grained Vin-dhyan sandstones. J. G. M., **M**, II, 143; Bhandar escarpment. F. R. M., **M**, VII, 84 (Pl. iii).



- Myinkyardo, *S. Shan States* (93 D/9; 20° 56' : 96° 33'), Thamakan limestone. C. S. M., A. R., 1900, 141.
- Myinmagyitaung, *Thayetmyo* (85 M/3; 19° 17' : 95° 9'), folding in Pegu series. G. C., R., LIV, 110.
- Myinmoletkat, *Tavoy* (95 K/10; 13° 34' : 98° 43'), granite. J. C. B., M, XLIV, 199.
- Myinmu, *Sagaing* (84 O/9; 21° 55' : 95° 35'), Pleistocene conglomerate. E. H. P., R., LX, 86.
- Myin-ngan (Mingain), *Pakokku* (84 K/6; 21° 38' : 94° 28'), *Batissa crawfurdi*. E. V., R., LI, 265.
- Myintha, *Pakokku* (84 J/2; 22° 35' : 94° 7'), concretionary limestone. T. D. L., R., XXIV, 98.
- Myinthadaung, *Myingyan* (84 O/8; 21° 3' 30" : 95° 19'), Pegu anticline. E. H. P., R., LIX, 72.
- Myinwadaung, *Henzada* (85 N/4; 18° 6' : 95° 6'), Negrais series, fossils. M. S., R., XLI, 250.
- Myitche, *Pakokku* (84 K/16; 21° 14' : 94° 57' 30"), alluvium. E. H. P., M, XL, 106.
- Myitkyina, *Burma* (92 C/7; 25° 23' : 97° 24'), earthquake, 1897. R. D. O., M, XXIX, 51; mica. T. H. H., M, XXXIV, 54; Burma earthquake, 1912. J. C. B., M, XLII, 56.
- Myitkyo, *Pegu* (94 C/14; 17° 36' : 96° 49'), Pegu earthquake, 1930. J. C. B., R., LXV, 236.
- Myitta, *Tavoy* (95 J/12; 14° 10' : 98° 31'), hot spring, sulphurous. T. O., M, XIX, 153; greywackes, Mergui series. J. C. B., M, XLIV, 182.
- Myittha, *Kyaukse* (93 C/3; 21° 25' : 96° 8'), Burma earthquakes, 1912. J. C. B., M, XLII, 51, 121, 123; aftershocks, 125, 128.
- Myisi, *Multan* (44 C/1 : 29° 47' 30" : 72° 11'), meteorite. T. O., R., VIII, 11 = *Mailsi*.
- Mymensingh, *Bengal* (78 L/5; 24° 46' : 90° 24'), Srimangal earthquake, 1918. M. S., M, XLVI, 23; aftershock, 54 = Maimansingh.
- Mynagoree, *Jalpaiguri* (78 B/14; 26° 34' : 88° 49'), Cachar earthquake, 1869. T. O., M, XIX, 31.
- Myodaung, *Henzada* (85 N/3; 18° 16' : 95° 2'), Tertiary gastropoda. E. V., R., LIII, 130.
- Myohaung, *Mandalay* (93 C/1; 21° 56' : 96° 5'), Burma earthquake, 1912. J. C. B., M, XLII, 19, 114.
- Myohla, *Toungoo* (94 A/7; 19° 24' : 96° 16'), Mogoung clays. W. T., M, X, 264.
- Myohla, *Yamethin* (93 D/3; 20° 21' : 96° 3'), mammalian bones. E. H. P., R., LIX, 74.
- Myothit, *Bhamo* (92 H/7; 24° 24' : 97° 24'), alluvial gold. C. L. G., R., XXV, 130.
- Myothlithaung, *L. Chindwin* (84 N/3; 22° 25' : 95° 13'), Irrawadian beds. E. H. P., R., LXII, 102.

- Myozo, *Pakokku* (84 K/16 ; 21° 11' : 94° 48' 30"), selenite in Irrawadian sandstone. E. H. P., **M**, XL, 106.
- Mypyagon, *Yamethin* (84 P/10 ; 20° 35' 30" : 95° 39'), Irrawadian beds. E. H. P., **R**, LVIII, 49.
- Na, *Bashahr* (53 I/9 : 31° 57' : 78° 35'), basic dykos. H. H. H., **M**, XXXVI, 99.
- Na-aw, *N. Shan States* (93 F/7 ; 22° 23' : 97° 17'), oolitic limestone, ? Rhætic. T. D. L., **M**, XXXIX, pt. 2, 262 (Pl. xv, fig. 1).
- Naband, *Persian Gulf* (18 A/11 ; 27° 23' 30" : 52° 37' 30"), gypsum. G. E. P., **M**, XXXIV, pt. 4, 158.
- Nabapur, *Dharwar* (48 M/11 ; 15° 19' : 75° 37' 30"), auriferous reefs, manganite. J. M. M., **R**, XXXIV, 125.
- Nabaro (Nabhewala), *Jaipur* (54 A/8 ; 27° 2' 30" : 76° 16'), copper-ore. C. A. H., **R**, X, 91 ; XIII, 247 ; A. M. H., **M**, XLV, 122.
- Nabbi Salih I., *Persian Gulf* (11 J/8 ; 26° 11' : 50° 35'), freshwater springs. G. E. P., **M**, XXXIV, pt. 4, 124.
- Nabgo, *Hundes* (62 A/4 ; 31° 7' : 80° 7'), Cretaceous beds. C. L. G., **M**, XXIII, 130.
- Nabid, *Persia* (24 G/10 ; 29° 40' 30" : 57° 38'), Siwalik beds. G. H. T., **R**, LIII, 67.
- Nabinagar, *Gaya* (72 D/2 ; 24° 36' : 84° 7'), rhyolite, L. Vindhyan, petrology. E. V., **M**, XXXI, 103.
- Nabinagar, *Tippera* (79 I/13 ; 23° 53' : 90° 58'), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 333.
- Nadaon, *Kangra* (53 A/5 ; 31° 47' : 76° 20'), Siwalik beds. H. B. M., **M**, III, pt. 2, 145.
- Nadapanhalli, *Mysore* (57 D/7 ; 12° 15' 30" : 76° 23'), Dharwar outlier, old workings for gold. R. B. F., **R**, XXII, 21.
- Naddavi, Naddevi, *Bellary* (57 A/14 ; 15° 30' 30" : 76° 48' 30"), hematite-schist, Dharwar. R. B. F., **R**, XXII, 32 ; quartz reef. **M**, XXV, 157.
- Nadia (Nabadwip), *Bengal* (79 A/7 ; 23° 24' : 88° 22'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 328 = Nuddea.
- Nadol, *Jodhpur* (45 G/7 ; 25° 22' : 73° 27'), Aravalli schists. C. A. H., **R**, XIV, 300.
- Nadri (N.), *Idar* (46 E/1 ; 24° 0' : 73° 0'), idocrase-rock. C. S. M., **M**, XLIV, 21.
- Nadri (S.), *Idar* (46 E/2 ; 23° 33' : 73° 8' 30"), quartz vein. C. S. M., **M**, XLIV, 130.
- Nadugani, *Nilgiri* (58 A/7 ; 11° 27' 30" : 76° 25'), charnockite. H. H. H., **M**, XXXIII, pt. 2, 12, 13.
- Naduvatam, *Nilgiri* (58 A/11 ; 11° 29' 30" : 76° 32'), charnockite. H. H. H., **M**, XXXIII, pt. 2, 13 ; dolerite, petrology, 16.
- Nafa 'a, *Oman* (26 I/7 ; 23° 26' : 58° 17'), Hatat series, Archæan. G. E. P., **M**, XXXIV, pt. 4, 98.
- Naft Khana, *Iraq* (2 F/8 ; 34° 1' : 45° 27'), oil wells. E. H. P., **M**, XLVIII, 65.
- Nag Tikar, *Simla* (53 E/8 ; 31° 13' 30" : 77° 20'), Madhan sandstone. G. E. P., **M**, LIII, 121.

- Naga, *Hazara* (43 F/6; 34° 41' : 73° 24'), Salkhala series. D. N. W., **R**, LXV 197.
- Nagaberan, *Kashmir* (43 N/4; 34° 7' : 75° 6'), L. Triassic fossils. H. H. H., **R**, XLIV, 39.
- Nagali, *Chamba* (43 P/14; 32° 34' : 75° 55'), trap rocks. C. A. M., **R**, XV, 35.
- Nagam (Qasba Nagam), *Kashmir* (43 K/13; 33° 55' : 74° 47'), dip slope in Karewas. C. S. M., **R**, XLI, 120.
- Nagankheri-Mandli, *Jhabua* (46 J/5; 22° 45' : 74° 28'), manganese-ore. L. L. F., **M**, XXXVII, 690.
- Naganur, *Bijapur* (47 P/8; 16° 5' : 75° 20' 30"), L. Kuladgi beds. R. B. F., **M**, XII, 113; quartz veins, 128.
- Nagar, *Jodhpur* (45 C/1; 25° 47' 30" : 72° 9'), dyke in Malani rhyolite. T. D. L., **M**, XXXV, 53 (Pl. v, fig. 1).
- Nagar, *Korea* (64 I/7; 23° 19' : 82° 27'), dolerite sill. L. L. F., **M**, XLI, 156; coal seams. 190-194, 217, 218.
- Nagar, *Shinoga* (48 O/1; 13° 49' : 75° 2'), mica. T. H. H., **M**, XXXIV, 68.
- Nagar Koil, *Travancore* (58 H/8; 8° 11' : 77° 26'), Warkulli beds. R. B. F., **R**, XVI, 28.
- Nagarakonda, *Bellary* (57 B/2; 14° 43' : 76° 10'), hornblende-schists, Dharwar. J. M. M., **R**, XXXIV, 112.
- Nagaramalai, *Salem* (58 I/2; 11° 43' : 78° 8'), garnetiferous charnockite. T. H. H., **M**, XXVIII, 160, 181; petrology, XXX, 125 (figs.)—Nagra Mullay.
- Nagardhan, *Nagpur* (55 O/7; 21° 20' : 79° 19'), manganese-ore. L. L. F., **M**, XXXVII, 911.
- Nagargali, *Belgaum* (48 T/11; 15° 24' 30" : 74° 37'), manganese-ore. L. L. F., **M**, XXXVII, 241, 642; E. H. P., **R**, LXI, 64.
- Nagaria, *Agra* (54 J/1; 26° 59' : 78° 13'), meteorite. J. C. B., **M**, XLIII, 243.
- Nagarjan Mt., *Nepal* (72 E/6; 27° 45' : 85° 16'), building stone. H. B. M., **R**, VIII, 97.
- Nagati Basapuram, *Bellary* (48 N/13; 14° 56' 30" : 75° 56'), Dharwar conglomerates. J. M. M., **R**, XXXIV, 109.
- Nagavi, *Dharwar* (48 M/11; 15° 21' 30" : 75° 36' 30"), dolerite dyke. J. M. M., **R**, XXXIV, 114; old workings for gold, 125.
- Nagawaram, *Warangal* (56 O/14; 17° 38' : 79° 47'), porphyritic diorite. R. B. F., **R**, XVIII, 30.
- Nageswari, *Rangpur* (78 G/9; 25° 58' : 89° 42'), earthquake, 1897, sand-vents. R. D. O., **M**, XXIX, 320.
- Naggar, *Kulu* (52 H/4; 32° 7' : 77° 10'), Silurian slates (?). R. L., **R**, XIII, 53; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 65.
- Naggery Nose (Nagarimur Konda), *Chittoor* (57 O/11; 13° 22' 30" : 79° 36'), Cuddapah quartzites. W. K., **M**, VIII, 176; porphyritic granite-gneiss. R. B. F., **R**, XII, 192.
- Naghar, *Chitral* (38 M/11; 35° 29' : 71° 44' 30"), Mirkanni granite. E. H. P., **R**, LVI, 48.
- Naghial, *Jhelum* (43 H/6; 32° 43' : 73° 23'), water-supply. E. H. P., **R**, LXIII, 77; Palaeozoic beds, 137.

- Nagireddipalli, *Kurnool* (57 I/12; 15° 9' 30" : 78° 31'), manganese-ore. L. L. F., **M**, XXXVII, 1038.
- Nagmarg, *Kashmir* (43 J/7; 34° 28' : 74° 30'), *Glossopteris* flora. H. H. H., **R**, XLIII, 38.
- Nagode, *Baghelkhand* (63 D/10; 24° 34' : 80° 35'), fossils, supposed, in Bhandar sandstones. H. B. M., **M**, II, 52.
- Nagona, *Jodhpur* (45 B/12; 26° 8' : 72° 32'), flow-structure in Malani rhyolite. T. D. L., **M**, XXXV, 48.
- Nagore (Nagaur), *Jodhpur* (45 E/12; 27° 12' : 73° 44'), gypsum. T. H. H., **R**, XXXIX, 252.
- Nagpur, *Central Provinces* (55 O/1; 21° 9' : 79° 5'), geology of neighbourhood. W. T. B., **M**, IX, 295 (Pl. i).
- Nagpur (Nagnath), *Garhwal* (53 N/3; 30° 19' : 79° 12' 30"), copper- and iron-ores. A. W. L., **R**, II, 88.
- Nagra Mullay, *Salem* (58 I/2; 11° 43' : 78° 8'), ultra-basic rock. W. K., **M**, IV, 317=Nagaramalai.
- Nagri, *Jhelum* (43 D/5; 32° 47' : 72° 29'), M. Siwalik fauna. G. E. P., **R**, XLIII, 267, 318.
- Nagrota, *Jammu* (43 L/13; 32° 48' : 74° 55'), Unionidae. B. P., **R**, LX, 309, 310 (Pl. xxv, figs. 1-3).
- Nagurbetta, *Gulbarga* (56 D/7; 16° 17' : 76° 15' 30"), trap flows. R. B. F., **M**, XII, 184; laterite, 215.
- Nagwarum, *Cuddapah* (57 N/8; 14° 2' : 79° 20'), Cuddapah scarp. W. K., **M**, VIII, 20 (Pl. i, fig. 2).
- Nahakaung (Nayakaung), *Katha* (92 D/4; 24° 14' 30" : 96° 11' 30"), earthquake, 1897. R. D. O., **M**, XXIX, 40.
- Nahan, *Sirmur* (53 F/6; 30° 33' 30" : 77° 18'), vertebrate fossils. W. T., **R**, XIV, 70; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 197=Nahun.
- Na-hawk, *N. Shan States* (93 F/5; 22° 50' 30" : 97° 26'), Jurassic fossils. T. D. L., **M**, XXXIX, pt. 2, 307.
- Nahempatti (Nagaiyampatti), *Salem* (58 I/7; 11° 28' : 78° 29'), iron-ore. T. H. H., **R**, XXV, 149.
- Nahora (S.), *Simla* (53 F/1; 30° 59' 30" : 77° 10'), overlap of Jaunsar by Chail thrust. G. E. P., **M**, LIII, 84.
- Nahera (Nahra), *Simla* (53 E/4; 31° 5' : 77° 9' 30"), talc-schist, Chail series. G. E. P., **M**, LIII, 89; carbonaceous limestone, Jutogh series, 106; perminite in Boileau-ganj quartzite, 107.
- Nahor Pung, *Lakhimpur* (83 M/8; 27° 13' 30" : 95° 25'), borings for oil. T. W. H. H., **R**, VII, 55; E. H. P., **M**, XL, 292.
- Na-hsy (Nah-sai), *N. Shan States* (93 F/9; 22° 59' : 97° 31'), water-supply. E. H. P., **R**, LXIII, 60.
- Naht-mi, *Thayetmyo* (85 M/4; 19° 10' : 95° 3' 30"), gas spring. W. T., **R**, VI, 69.
- Nahun, *Sirmur* (53 F/6; 30° 33' 30" : 77° 18'), supposed find of vertebrate fossils. H. B. M., **M**, III, pt. 2, 15; sub-Himalayan rocks, section, 106 (fig.) = Nahan.
- Nai Kach, *Waziristan* (38 L/3; 32° 23' : 70° 4'), Cretaceous shales. M. S., **R**, LIV, 95.

- Naicolum, *Trichinopoly* (58 I/16; 11° 3' 30" : 78° 50' 30"), Utatur plant beds. H. F. B., **M**, IV, 46; coral-reef limestone, 55; plant beds, section. R. B. F., **R**, XI, 247; flora, 257; Cretaceous sponges. XII, 159=Neykkulam.
- Naiduvalsa, *Vizagapatam* (65 N/2; 18° 40' : 83° 15'), manganese-ore. L. L. F., **M**, XXXVII, 462, 1048.
- Naigain, *Jubbulpore* (64 A/3; 23° 25' 30" : 80° 3' 30"), pyrolusite. P. N. B., **R**, XXI, 85.
- Naigawa (? Noagaon), *Kothi* (63 D/13; 24° 46' : 80° 48'), diamond workings. E. V., **R**, XXXIII, 287.
- Naigh Nai (Naing R.), *Larkhana* (35 N/11; 26° 20' : 67° 32'), Gaj series, mollusca. E. V., **M**, L, 424, 428, 431.
- Naihati, 24 *Parganas* (79 B/5; 22° 53' : 88° 25'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 64, 71.
- Naihna, *Sirmur* (53 F/9; 30° 45' 30" : 77° 40'), Jaunsar series. G. E. P., **M**, LIII, 39.
- Nalkan-ka-khera, *Merwara* (45 K/5; 25° 56' : 74° 28'), outlier, Delhi rocks. E. H. P., **R**, LVIII, 67.
- Naikenpolliam, Naikenpalem (Kosainagaram), *Chittoor* (57 O/12; 13° 14' 30" : 79° 44'), Rajmahal beds. R. B. F., **R**, III, 15; XII, 199; **M**, X, 81 (figs.); outlier of Cuddapah quartzite, 78.
- Naili, Naila, *Bilaspur State* (53 A/7; 31° 25' : 76° 24'), high-level gravels. H. B. M., **R**, IX, 56; Siwalik beds, section. W. T., **R**, XIV, 91.
- Naini, *Allahabad* (63 G/15; 25° 23' : 81° 52'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 65, 71.
- Naini Devi, *Bilaspur State* (53 A/11; 31° 18' : 76° 32'), Siwalik syncline. H. B. M., **M**, III, pt. 2, 141 (fig.); Dagshai-Kasauli beds. H. H. H., **R**, XLI, 83, 84.
- Naini Tal, *United Provinces* (53 O/7; 29° 23' : 79° 27'), Krol limestone and slates. H. B. M., **M**, III, pt. 2; 69; origin of lake. V. B., **R**, XI, 175 (Pl. v); W. T., **R**, XIII, 163, 171; C. S. M., **R**, XXIII, 228 (Pl. xxi); hot spring, sulphurous. T. O., **M**, XIX, 119; landslips. R. D. O., **R**, XIII, 277; C. L. G., **R**, XXIX, 6; C. S. M., **A. R.**, 1899, 35; E. H. P., **R**, LXI, 47; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 201.
- Naira (Nera) R., *Sirmur* (53 F/10; 30° 39' : 77° 42'), Blaini beds and Jaunsar volcanics. R. D. O., **R**, XX, 156; XXI, 132=Newell R.
- Naivailie (Neyveli), *Trichinopoly* (58 J/9; 10° 58' : 78° 33'), quartzose gneiss. W. K., **M**, IV, 269; crystalline limestone, 276; graphic granite, 336, 338.
- Nakalapali, *Adilabad* (56 M/12; 19° 2' : 79° 45'), Maleri red clays. W. K., **R**, XIII, 22.
- Na-kang, *N. Shan States* (93 F/6; 22° 33' : 97° 25'), hot springs. T. D. L., **M**, XXXIX, pt. 2, 363.
- Nakarikallu, *Guntur* (56 P/15; 16° 22' : 79° 56'), quartz vein, ? fault-rock. R. B. F., **M**, XVI, 44.
- Na-Keng, *N. Shan States* (93 E/8; 23° 11' : 97° 28'), Rhætic fossils. L. L. F., **R**, LXV, 87.
- Nakha, *Bilaspur* (64 J/1; 22° 55' : 82° 8'), river piracy. L. L. F., **R**, XLIV, 237.
- Naki (Nakian), *Hoshiarpur* (53 A/12; 31° 12' : 76° 33' 30'), power-house site. L. L. F., **R**, LIV, 21.

- Na-kio, *N. Shan States* (93 F/6;  $22^{\circ} 41' : 97^{\circ} 18'$ ), river terrace. T. D. L., **M**, XXXIX, pt. 2, 342.
- Naking, *S. Shan States* (93 K/2;  $21^{\circ} 44' 30'' : 98^{\circ} 14'$ ), antimony-ore. H. C. J., **R**, LIII, 45; J. C. B., **R**, LVI, 92.
- Nakkar, *Punch* (43 G/10;  $33^{\circ} 43' 30'' : 73^{\circ} 43'$ ), L. Siwalik syncline. D. N. W., **M**, LI, 275, 328.
- Nakni, *Rewah* (63 H/8;  $24^{\circ} 10' : 81^{\circ} 24'$ ), L. Vindhyan conglomerate. R. D. O., **M**, XXXI, 119.
- Na-ko-li, *Yunnan* (102 F/1;  $22^{\circ} 54' 30'' : 101^{\circ} 4'$ ), anthracite. J. C. B., **M**, XLVII, 73.
- Nakti, *Singbhum* (73 F/10;  $22^{\circ} 43' : 85^{\circ} 30'$ ), diablastic structure in granite. J. A. D., **M**, LIV, 111 (Pl. xvi, fig. 1).
- Naku, *Bashahr* (53 I/9;  $31^{\circ} 53' : 78^{\circ} 38'$ ), kyanite-schist. H. H. H., **M**, XXXVI, 11.
- Na-ku, *Yunnan* (102 B/13;  $22^{\circ} 51' : 100^{\circ} 55'$ ), Triassic beds. J. C. B., **R**, LIV, 318.
- Naku La, *Sikkim* (77 D/8;  $28^{\circ} 3' : 88^{\circ} 29'$ ), moraines. H. H. H., **M**, XXXVI, 135; Jurassic fossils, 155.
- Na-kyeh, *N. Shan States* (93 F/5;  $22^{\circ} 56' : 97^{\circ} 27' 30''$ ), Jurassic fossils. T. D. L., **M**, XXXIX, pt. 2, 307.
- Nal, *Kalat* (35 I/2;  $27^{\circ} 40' 30'' : 66^{\circ} 12'$ ), Jurassic anticline. E. V., **R**, XXXVIII, 193; volcanic rocks, 197.
- Nalagarh, *Simla* (53 A/12;  $31^{\circ} 3' : 76^{\circ} 43'$ ), flexures in Siwalik beds. H. B. M., **M**, III, pt. 2, 133; Nahan sandstone, petrology. C. A. M., **R**, XVI, 188; passage beds, Dagshai-Nahan series. E. H. P., **R**, LV, 41.
- Nalbari, *Kamrup* (78 N/7;  $26^{\circ} 27' : 91^{\circ} 27'$ ), earthquake, 1897, earth-waves and sand-vents. R. D. O., **M**, XXIX, 27, 102, 334.
- Naldera, *Simla* (53 E/4;  $31^{\circ} 11' : 77^{\circ} 11' 30''$ ), limestone, Simla series. G. E. P., **M**, LIII, 113.
- Nale, *Punch* (43 G/10;  $33^{\circ} 41' : 73^{\circ} 45'$ ), transverse folding in Siwaliks. D. N. W., **M**, LI, 328.
- Na-long, *N. Shan States* (93 F/13;  $22^{\circ} 59' 30'' : 97^{\circ} 50'$ ), coal, analysis. T. D. L., **M**, XXXIX, pt. 2, 368.
- Nalhati, *Birbhum* (72 P/15;  $24^{\circ} 18' : 87^{\circ} 50'$ ), earthquake, 1897. E. V., **M**, XXIX, 313; bauxite. T. H. H., **R**, XXXII, 142.
- Nali, *Shahpur* (43 D/7;  $32^{\circ} 29' 30'' : 72^{\circ} 19'$ ), denudation of limestone. A. B. W., **M**, XIV, 212 (fig.).
- Nalifarsh Kotal, *Afghanistan* (33 M/15;  $35^{\circ} 15' : 67^{\circ} 48'$ ), Saighan series. H. H. H., **M**, XXXIX, 61.
- Nalikata, *Khasi Hills* (78 O/8;  $25^{\circ} 12' 30'' : 91^{\circ} 15' 30''$ ), monoclinical fold. R. W. P., **R**, LV, 158.
- Naliya, *Cutch* (41 A/15;  $23^{\circ} 15' 30'' : 68^{\circ} 50'$ ), earthquake, 1819. R. D. O., **M**, XLVI, 108; Gaj series, mollusca. E. V., **M**, L, 83, 91, 114, &c. = Nullia.
- Nallur, *Pudukkottai* (58 J/14;  $10^{\circ} 38' : 78^{\circ} 45'$ ), lateritic conglomerate. R. B. F., **R**, XII, 153.
- Nalutwar, *Bijapur* (56 D/8;  $16^{\circ} 15' : 76^{\circ} 17' 30''$ ), granite veins in gneiss. R. B. F., **M**, XII, 64.

- Nalwar, *Gulbarga* (56 H/1; 16° 55' : 77° 1'), basal beds, Bhima series. R. B. F., **M**, XII, 146.
- Nam, *Tibet* (77 K/15; 29° 28' : 90° 55'), porphyritic granite. H. H. H., **R**, XXXII, 168; **M**, XXXVI, 182.
- Namagiripett, *Salem* (58 I/7; 11° 27' : 78° 16'), iron smelting. T. H. H., **R**, XXV, 148; iron-ores, assays. **M**, XXX, 113.
- Namak hill, *Persia* (25 A/6; 27° 33' : 56° 20'), extrusion of Hormuz salt. G. E. P., **M**, XLVIII, pt. 2, 48; Oligocene beds, 79, 99.
- Namakdan, *Persian Gulf* (18 N/6; 26° 36' : 55° 28'), Fars and Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 129 (fig.); salt, 159; XLVIII, pt. 2, 32.
- Namal, *Mianwali* (38 P/14; 32° 40' : 71° 48'), post-Tertiary gravels. A. B. W., **M**, XIV, 114, 253 (Pl. xxix).
- Namayan, *Prome* (85 N/1; 18° 46' : 95° 13'), oil seepage. W. T., **M**, X, 346; M. S., **R**, XXXVII, 270; E. H. P., **M**, XL, 176=Nummayahn.
- Namba R., *Sibsagar* (83 F/15; 26° 20' : 93° 50'), limestone. H. B. M., **M**, IV, 412, 429; hot spring, sulphurous, 414; T. O., **M**, XIX, 149=Nambar R.
- Nambal (Ker Nambal), *Punch* (43 G/9; 33° 46' : 73° 35'), Murree-Siwalik boundary. D. N. W., **M**, LI, 330.
- Nambala (Nimbal), *Adilabad* (56 M/8; 19° 14' 30" : 79° 27'), Maleri red clays. W. K., **R**, XLII, 22.
- Nambar, Nambor R., *Sibsagar* (83 F/15; 26° 20' : 93° 50'), coal seam. F. R. M., **M**, XII, 285 (note); F. H. S., **M**, XXVIII, 88, 94; H. H. H., **A. R.**, 1902, 18; R. R. S., **M**, XLI, 22=Namba R.
- Nam-Bong (Nampong), *Singpho Hills* (92 A/3; 27° 19' : 96° 7'), Tipam sandstones. M. S., **R**, LIV, 402.
- Nambye (Nabhoi), *Cutch* (41 E/8; 23° 8' 30" : 69° 24'), Jurassic beds altered by trap. A. B. W., **M**, IX, 193.
- Namchi, *Sikkim* (78 A/8; 27° 10' : 88° 23'), Daling series. P. N. B., **R**, XXIV, 222.
- Namchik R., *Naga Hills* (83 M/15; 27° 17' : 95° 59'), coal and petroleum. H. B. M., **M**, IV, 399, 414; F. R. M., **M**, XII, 357; E. H. P., **R**, XLI, 214 (Pl. xvi); **M**, XL, 306; R. R. S., **M**, XLI, 16.
- Namcho, *Tibet* (77 J/N. E.; 30° 45' : 90° 30'), *Omphalia*. O. F., **R**, X, 21 (Pl. i) =Nam-Tso.
- Namda (Nyomda), *Tibet* (71 P/3; 28° 26' 30" : 87° 0' 30"), Cretaceous limestone. A. M. H., **R**, LIV, 229; basic dykes, 231.
- Namdang R., *Lakhimpur* (83 M/11; 27° 16' : 95° 42'), coal seams. F. R. M., **M**, XII, 310; R. R. S., **M**, XLI, 17; oil seepages. E. H. P., **M**, XL, 304.
- Namgawn Hka, *Hukawng* (92 B/7; 26° 18' : 96° 29'), alluvial gold. L. L. F., **R**, LXV, 49.
- Namhathai, *N. Shan States* (93 F/5; 22° 47' 30" : 97° 25'), Jurassic fossils. T. D. L., **M**, XXXIX, pt. 2, 307.
- Nam-Hsan, *N. Shan States* (93 F/1; 22° 58' : 97° 10'), granite. T. D. L., **M**, XXXIX, pt. 2, 59; olivine-gabbro, 60 (Pl. viii); Burma earthquakes, 1912. J. C. B., **M**, XLII, 36, 119.
- Namhsawm, *N. Shan States* (93 F/3; 22° 20' 30" : 97° 10'), Jurassic fossils. T. D. L., **M**, XXXIX, pt. 2, 307 (note).

- Nam-hsim, *N. Shan States* (93 J/6; 22° 40' : 98° 21'), graptolite beds. T. D. L., **M**, XXXIX, pt. 2, 128.
- Namhsim river, *N. Shan States* (93 F/2; 22° 37' : 97° 5'), Silurian sandstones. T. D. L., **M**, XXXIX, pt. 2, 130.
- Namhsu-hka R., *N. Shan States* (93 B/5; 22° 47' : 96° 28'), ruby gravels. T. D. L., **M**, XXXIX, pt. 2, 320, 372=Namseka R.
- Namhu-ikkyi, *N. Shan States* (93 F/3; 22° 23' : 97° 3' 30"), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 290 (note).
- Namjan Hka, *Myitkyina* (92 C/6; 25° 41' : 96° 23'), gabbro. E. H. P., **R**, LXIII, 100=Kyum Hka.
- Namma, *N. Shan States* (93 F/14; 22° 42' : 97° 40'), coalfield. F. N., **R**, XXIV, 116; R. R. S., **R**, XXXIII, 125 (fig. & Pls. xii, xiii); **M**, XLI, 70; T. D. L., **M**, XXXIX, 311; Pleistocene gastropoda, 316; N. A., **R**, L, 213, 222 (Pls. xxxi-xxxiii).
- Namma R. (E.), *N. Shan States* (93 J/5; 22° 55' : 98° 27'), gold-dredging. T. H. H., **R**, XXXVII, 31; T. D. L., **M**, XXXIX, pt. 2, 373.
- Nammang, *N. Shan States* (93 F/2; 22° 38' : 97° 1'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 138.
- Nammaw, *Myitkyina* (92 C/2; 25° 33' : 96° 15'), iron-ore. E. H. P., **R**, LXII, 54; jadeite, 56.
- Namnianthal (Namniyandal), *S. Arcot* (57 P/3; 12° 17' : 79° 8' 30"), meteorite. H. B. M., **R**, XIX, 268; J. C. B., **M**, XLIII, 243.
- Nammo, *N. Shan States* (93 F/5; 22° 50' : 97° 20'), scarp, Silurian sandstone. T. D. L., **M**, XXXIX, pt. 2, 136.
- Namon (Wan Namon), *Karenni* (94 E/7; 19° 22' : 97° 29' 30"), tourmaline. C. S. M., **A. R.**, 1900, 152.
- Nam-on, *N. Shan States* (93 F/3; 22° 28' 30" : 97° 11' 30"), hot spring. T. D. L., **M**, XXXIX, pt. 2, 363.
- Nampanet, *S. Shan States* (93 D/6; 20° 45' : 96° 29' 30"), conglomerates, Purple sandstone series. C. S. M., **A. R.**, 1900, 144; Burma earthquake, 1912. J. C. B., **M**, XLII, 43.
- Nam-Pawng R., *N. Shan States* (93 F/10; 22° 37' : 97° 37'), caldron valleys. T. D. L., **M**, XXXIX, pt. 2, 24 (Pl. v).
- Nampen, *N. Shan States* (93 F/3; 22° 27' : 97° 4'), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 290 (note).
- Nam-pung, *N. Shan States* (93 J/7; 22° 20' : 98° 22'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 146.
- Namsabein, *Myitkyina* (92 C/2; 25° 31' 30" : 96° 9'), alluvial gold. E. H. P., **R**, LXII, 53.
- Nam-sam R., *N. Shan States* (93 F/2; 22° 40' : 97° 14'), natural bridge. T. D. L., **M**, XXXIX, pt. 2, 24.
- Namsang, *Lakhimpur* (83 M/8; 27° 13' : 95° 28'), coal seams. F. R. M., **M**, XXI, 340; R. R. S., **M**, XLI, 16.
- Namsang, *Naga Hills* (83 J/14; 26° 43' : 94° 47' 30"), Tipam sandstone. E. H. P., **M**, XL, 286.
- Namsaw, *N. Shan States* (93 B/14; 22° 31' : 96° 57'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 340.



- Namseka R., *N. Shan States* (93 B/5 ; 22° 47' : 96° 28'), ruby gravels. F. N., R, XXIV, 119=Namhsu-hka R.
- Namshamaw, *Myitkyina* (92 C/5 ; 25° 45' 30" : 96° 22' 30"), chromite. E. H. P., R, LXIII, 30 ; iron-ore, 36 ; jadeite, 39.
- Namsio, *N. Shan States* (93 F/6 ; 22° 43' : 97° 16'), overthrust fault. T. D. L., M, XXXIX, pt. 2, 343.
- Namti, *Myitkyina* (92 G/3 ; 25° 22' : 97° 0' 30"), building stone. E. H. P., R, LXIII, 29.
- Namting, *Myitkyina* (92 C/6 ; 25° 38' 30" : 96° 27' 30"), Tertiary sandstones. E. H. P., R, LXII, 109 ; picrites and andesitic tuffs. LXIII, 99.
- Nam-tok, *S. Shan States* (93 H/4 ; 20° 11' 30" : 97° 2'), saltpetre. C. S. M., A. R., 1900, 152.
- Nam-Tso, *Tibet* (77 J/N. E. ; 30° 45' : 90° 30'), *Omphalia*. H. H. H., M, XXXVI, 122, 161=Namcho.
- Namtu, *N. Shan States* (93 E/8 ; 23° 5' : 97° 24'), Jurassic fossils. F. C. R., R, LXV, 185.
- Nam-un (E.), *N. Shan States* (93 J/2 ; 22° 30' : 98° 1'), Permo-Carboniferous fossils. T. D. L., M, XXXIX, pt. 2, 260.
- Nam-un (W.), *N. Shan States* (93 F/11 ; 22° 18' : 97° 30'), Ordovician fossils. T. D. L., M, XXXIX, pt. 2, 81.
- Namyau R., *N. Shan States* (93 F/9 ; 22° 51' : 97° 36'), Jurassic sandstones. T. D. L., M, XXXIX, pt. 2, 303 ; calcareous dams, 326 (Pls. xvii, xviii & xx).
- Namyong, *Myitkyina* (92 C/6 ; 25° 40' : 96° 26'), coal seams. E. H. P., R, LXIII, 31 ; fossil wood, 100.
- Nam-yun, *N. Shan States* (93 F/2 ; 22° 38' 30" : 97° 8'), Ordovician fossils. T. D. L., M, XXXIX, pt. 2, 76.
- Namyung R., *Singpho Hills* (92 B/1 ; 26° 58' : 96° 11'), serpentine. M. S., R, LIV, 402.
- Nan-an Chou, *Yunnan* (101 H/9 ; 24° 53' : 101° 36'), silver mines. J. C. B., M, XLVII, 125.
- Na-nang, *N. Shan States* (93 J/1 ; 22° 51' 30" : 98° 1'), Ordovician beds. T. D. L., M, XXXIX, pt. 2, 80.
- Nananwas, *Jaipur* (54 B/11 ; 26° 19' 30" : 76° 34'), Tirhoan limestone. A. M. H., M, XLV, 174.
- Nan-chien, *Yunnan* (101 C/12 ; 25° 3' : 100° 34'), Permo-Triassic beds. J. C. B., R, LIV, 322.
- Nanda Gali, *Punch* (43 K/2 ; 33° 32' 30" : 74° 2'), bauxite. D. N. W., M, LI, 365.
- Nandan, *Punch* (43 K/1 ; 33° 56' : 74° 10'), Eocene-Dogra Slate boundary. D. N. W., M, LI, 297.
- Nandana, *Kathiawar* (41 F/8 ; 22° 8' : 69° 18'), selenite in Tertiary clays. F. F., M, XXI, 134.
- Nandana Marrila, *Nellore* (57 M/11 ; 15° 29' : 79° 31'), mica-schists. R. B. F., M, XVI, 28, 41.
- Nandanam, *Nellore* (57 M/7 ; 15° 28' : 79° 16' 30"), sand dunes. R. B. F., M, XVI, 101.
- Nandapuri, *Nagpur* (55 O/7 ; 21° 20' : 79° 20'), dannemorite ?. L. L. F., M, XXXVII, 147 ; manganese-ore, 912 (fig.).

- Nandavaram, *Kurnool* (57 I/7; 15° 22' : 78° 17'), manganese-ore. L. L. F., **M**, XXXVII, 1038.
- Nandawgon, *Minbu* (84 L/16; 20° 5' : 94° 56'), tooth of Siwalik deer. E. H. P., **M**, XL, 156.
- Nandgaon, *Balaghat* (55 O/13; 21° 49' : 79° 55'), manganese-ore. L. L. F., **M**, XXXVII, 708.
- Nandgaon, *Eastern States* (64 G/4; 21° 6' : 81° 2'), Pem shales. Vindhyan. V. B., **R**, X, 179.
- Nandgaon, *Nagpur* (55 O/3; 21° 18' : 79° 12' 30"), fault breccias. L. L. F., **R**, LIV, 46.
- Nandgondi, *Nagpur* (55 O/3; 21° 28' 30" : 79° 3' 30"), spessartite-rock. L. L. F., **M**, XXXVII, 861.
- Nandhaur R., *Naini Tal* (53 O/12; 29° 5' : 79° 44'), Nahan-plants. C. S. M., **M**, XXIV, 158.
- Nandhi, *Balaghat* (55 O/14; 21° 41' : 79° 49'), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Nandia (Nadiyapur), *Chhindwara* (55 K/14; 21° 44' : 78° 46'), Deccan trap boundary. P. N. D., **R**, XXXIII, 222.
- Nandigama, *Kistna* (65 I/5; 16° 46' 30" : 80° 17'), granitoid gneiss band. R. B. F., **R**, XVIII, 14.
- Nandnah, *Rewah* (64 E/7; 23° 20' : 81° 29'), coal seams. T. W. H. H., **M**, XXI, 186, 243; R. R. S., **M**, XLI, 78.
- Nando, *Rewah* (63 H/4; 24° 8' 30" : 81° 0'), Kheinjua limestone. P. N. D., **M**, XXXI, 152.
- Nandpa, *Adilabad* (56 M/7; 19° 21' : 79° 23'), Cuddapah quartzites. W. K., **R**, X, 63.
- Nandprayag, *Garhwal* (53 N/7; 30° 20' : 79° 19'), schists and biotite-gneiss. T. H. H., **R**, XXVII, 57.
- Nandpur (Anandpur), *Hoshiarpur* (53 A/12; 31° 15' : 76° 30'), flexure in Siwalik beds. H. B. M., **M**, III, pt. 2, 139.
- Nandrakka, *Kohat* (38 O/11; 33° 15' : 71° 33'), rock-salt. M. S., **R**, L, 32, 95; potash salt, 55=Nundrukki.
- Nandtoli, *Ranchi* (73 F/1; 22° 59' : 85° 12' 30"), aplite. L. A. N., **R**, LXV, 513; analysis, 502.
- Nandur Madmeshwar, *Nasik* (46 L/4; 20° 1' : 74° 9'), mammalian bones. T. H. H., **R**, XXXI, 103; G. E. P., **R**, XXXII, 199 (Pls. ix-xiii).
- Nangababar, *Raipur* (64 L/6; 20° 32' 30" : 82° 17'), Vindhyan quartzites. V. B., **R**, X, 174.
- Nangba La, *Tibet* (71 L/12; 28° 5' : 86° 35'), metamorphic rocks. A. M. H., **R**, LIV, 223.
- Nangkam (Lungkam), *Naga Hills* (83 J/7; 26° 15' 30" : 94° 25'), ammonite in Disang shales. H. H. H., **R**, XL, 287.
- Nangkartse, *Tibet* (77 L/5; 28° 57' : 90° 25'), dyke-rocks. H. H. H., **M**, XXXVI, 161, 179.
- Nangkuba, *Khasi Hills* (78 O/3; 25° 13' : 91° 26' 30"), blue clay, Cretaceous. R. W. P., **R**, LV, 161.
- Nangmoni Tapsa, *Ladakh* (43 M/9; 35° 50' : 75° 36'), old moraine. R. L., **R**, XIV, 44.

- Nangon (Nam Hkom), *S. Shan States* (93 D/9; 20° 51' : 96° 35'), lignite. C. S. M., A. R., 1900, 150; R. R. S., M, XLI, 70.
- Nangpoh, *Khasi Hills* (78 O/13; 25° 54' : 91° 53'), earthquake, 1897, electric effects. R. D. O., M, XXIX, 190=Nungpoh.
- Naniazeik, *Myitkyina* (92 C/10; 25° 37' : 96° 35'), gem tract. A. W. G. B., R, XXXVI, 164, 257; J. C. B., R, LVI, 82=Nanyaseik.
- Na-nim, *N. Shan States* (93 F/3; 22° 24' 30" : 97° 6'), Rhætic fossils. T. D. L., M, XXXIX, pt. 2, 290 (note).
- Na-nio, *N. Shan States* (93 F/8; 22° 10' : 97° 16'), Fusulina limestone. T. D. L., M, XXXIX, pt. 2, 262.
- Nanivla, *Kolhapur* (47 H/15; 16° 24' : 73° 56'), bauxite. C. S. F., M, XLIX, 72.
- Nanjangud, *Mysore* (57 D/12; 12° 7' : 76° 41'), mica. T. H. H., M, XXXIV, 68.
- Nankatha, *N. Shan States* (93 B/7; 22° 28' : 96° 22'), Ordovician limestone. T. D. L., M, XXXIX, pt. 2, 73.
- Nankhi, *Idar* (46 E/2; 23° 43' : 73° 9'), Delhi quartzite. C. S. M., M, XLIV, 84.
- Nankwa, *Yamethin* (93 D/7; 20° 30' : 96° 18'), dam-site. E. H. P., R, LVI, 26; Chaung Magyi beds. LVIII, 43.
- Nansa, *Mewar* (45 K/7; 25° 16' : 74° 16' 30"), mica-pogmatites. H. H. H., R, XLIX, 14.
- Nantahin, *U. Chindwin* (84 I/7; 23° 19' : 94° 18'), coalfield. R. R. S., M, XLI, 73.
- Nan-tien, *Yunnan* (92 L/5; 24° 49' 30" : 98° 20'), late Tertiary terraces. J. C. B., R, XLIII, 175, 201 (Pl. xiv); lignite. M, XLVII, 60.
- Nanyaseik, Nanyetseik, *Myitkyina* (92 C/10; 25° 37' : 96° 35'), crystalline limestone. F. N., R, XXVI, 28; gem tract. C. L. G., R, XXVIII, 152; E. H. P., R, LXIII, 48; mica. T. H. H., M, XXXIV, 54=Naniazeik.
- Nan-yok, *N. Shan States* (93 B/10; 22° 31' 30" : 96° 33'), Silurian fossils. T. D. L., M, XXXIX, pt. 2, 138.
- Naog, *Patiala* (53 F/1; 30° 57' : 77° 14' 30"), Jaunsar series. G. E. P., M, LIII, 84.
- Naogai, *Rewah* (63 L/11; 24° 27' : 82° 33'), uralite-diabase, petrology. E. V., M, XXXI, 85.
- Naogaon, *Adilabad* (56 M/7; 19° 19' : 79° 24'), Maleri plants. T. W. H. H., R, XI, 27; E. H. P., R, LXII, 28.
- Naogaon (Nokphan), *Naga Hills* (83 M/8; 27° 4' : 95° 22'), sandstones, Disang series. F. R. M., M, XII, 287.
- Naogaon, *Singbhum* (73 F/4; 22° 3' : 85° 14'), iron-ore. H. H. H., R, LI, 13.
- Naoki, *Parbhani* (56 A/16; 19° 14' : 77° 0'), meteoric shower. E. H. P., R, LXII, 15; A. L. C., R, LXII, 444 (fig. & Pls. xiv-xx).
- Naoria (Nadria), *Rewah* (63 H/8; 24° 12' : 81° 29'), formation of gorge. R. D. O., M, XXXI, 43.
- Naorozabad, *Afghanistan* (29 J/14; 34° 31' : 62° 51'), Red Grit series, Cretaceous. C. L. G., R, XIX, 53.
- Naosir, *Jodhpur* (40 O/13; 25° 47' : 71° 52'), Barmer sandstones. W. T. B., R, X, 12; T. D. L., A. R., 1899, 44=Nausar.
- Napeh, *Minbu* (84 L/8; 20° 4' 30" : 94° 28'), *Velates schmideliana*. F. N., R, XXVII, 103 (Pls. xxviii, fig. 3 & xxix, figs. 1, 2)=Ngape,

- Napeng (N.), *N. Shan States* (93 F/5; 22° 52' : 97° 19'), Silurian overlap. T. D. L., **M**, XXXIX, pt. 2, 137.
- Napeng (S.), *N. Shan States* (93 F/3; 22° 29' 30" : 97° 6'), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 285, 340 (Pl. xxvii).
- Na-pha, *N. Shan States* (93 F/13; 22° 59' : 97° 48'), coal, analysis. T. D. L., **M**, XXXIX, pt. 2, 368.
- Naphak, *Garo Hills* (78 K/10; 25° 36' 30" : 90° 39'), earthquake, 1897, lakelets. R. D. O., **M**, XXIX, 155; sounds, 196.
- Nappo, *Hazaribagh* (73 E/5; 23° 48' 30" : 85° 17' 30"), ferriferous shales, Barakar. T. W. H. H., **M**, VII, 302; Ironstone Shales, 314.
- Nar, *Jammu* (43 G/15; 33° 23' 30" : 73° 50'), possible oilfield. C. S. M., **R**, XLIX, 191 (Pls. xiii-xv).
- Nar, *Punch* (43 G/14; 33° 40' 30" : 73° 45' 30"), main boundary fault. D. N. W., **M**, LI, 328.
- Nara, *Attock* (43 C/2; 33° 38' : 73° 3'), syncline in Murree beds. E. H. P., **R**, LXIII, 139.
- Nara, *Jhelum* (43 H/5; 32° 48' : 73° 24'), faulted anticline. L. L. F., **R**, LXV, 119.
- Nara, *Rawalpindi* (43 G/6; 33° 44' : 73° 15' 30"), petroleum spring. D. N. W., **M**, LI, 348.
- Nurai, *Miranzai* (38 K/14; 33° 35' : 70° 59'), Jura-Cretaceous, section. C. L. G., **R**, XXV, 86.
- Narainganj, *Dacca* (79 I/10; 23° 37' : 90° 30'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 29; aftershocks, 54.
- Narainganj, *Mandla* (64 B/1; 22° 50' : 80° 15'), Deccan trap flows. H. H. H., **R**, XLVII, 37.
- Narainpur, *Lakhimpur* (83 F/13; 26° 56' : 93° 50'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 340.
- Narainpur, *Warangal* (65 B/3; 18° 18' 30" : 80° 12'), Kamthi beds. W. K., **M**, XVIII, 262.
- Narnj, *Cuttack* (73 H/15; 20° 28' : 85° 47'), laterite. W. T. B., **M**, I, 274; kaolin, 279; Athgarh sandstones. V. B., **R**, X, 65; carbonaceous shale. R. R. S., **M**, XLI, 38.
- Narala, *Rawalpindi* (43 G/6; 33° 36' : 73° 18'), Chinji beds. D. N. W., **M**, LI, 283, 341.
- Narali, *Punch* (43 K/2; 33° 31' : 74° 2'), 'Great limestone', inlier. D. N. W., **M**, LI, 323.
- Narang, *Hazara* (43 F/9; 34° 54' : 73° 39'), Salkhala series. D. N. W., **R**, LXV, 199.
- Narangi, *Balaghat* (64 C/5; 21° 57' : 80° 28' 30"), bauxite. C. S. F., **M**, XLIX, 135.
- Naraoli (E.), *Karauli* (54 B/15; 26° 16' 30" : 76° 50'), U. Bhandar sandstone. A. M. H., **M**, XLV, 167.
- Naraoli (W.), *Karauli* (54 B/11; 26° 20' : 76° 38'), Tirohan limestone, analysis. A. M. H., **M**, XLV, 147.
- Narapareddipully, *Nellore* (57 M/7; 15° 17' : 79° 28'), chloritic schists. R. B. F., **M**, XVI, 22.

- Narasaraopett, *Guntur* (65 D/4; 16° 14' 30" : 80° 3'), epidote-gneiss. R. B. F., **M**, XVI, 30; travertine, 99.
- Narasimha-dever gudda, *Bellary* (57 B/2; 14° 40' : 76° 3'), granite-gneiss and pot-stone. R. B. F., **M**, XXV, 33, 35.
- Narasimhakonda, Narasimha Kandrika, *Nellore* (57 N/15; 14° 28' : 79° 53'), quartz-rock. W. K., **M**, XVI, 136; kyanite-quartz-rock. J. A. D., **M**, LII, 164.
- Narastan, *Kashmir* (43 N/4; 34° 3' : 75° 6'), Permo-Carboniferous beds. C. S. M., **R**, XL, 240; Trias, 244, 255.
- Naratu (Gardan Naorak), *Afghanistan* (29 J/6; 34° 37' : 62° 27'), Jurassic plant beds. C. L. G., **R**, XVIII, 63.
- Narauli, *Baroda* (46 G/3; 21° 23' : 73° 6'), Eocene laterite. C. S. F., **M**, XLIX, 98=Neroloe.
- Narayan Sarovar, *Cutch* (41 A/10; 23° 41' : 68° 32' 30"), Gaj series, *Cardium*. E. V., **M**, L, 445.
- Narayandevarakorra, *Bellary* (57 A/8; 15° 11' : 76° 18'), manganose-ore. I. L. F., **M**, XXXVII, 1007, 1020.
- Narbo Sumdo, *Rupshu* (52 L/6; 32° 40' 30" : 78° 23'), Permian slates and schists. H. H. H., **M**, XXXVI, 93, 94.
- Narcondam, *Andaman Sea* (86 K/7; 13° 25' : 94° 16'), volcano. F. R. M., **M**, XXI, 281 (Pl. iv); soundings off—. A. Carpenter, **R**, XX, 46 (Pls. iv, v) =Narkondam.
- Nardajian, *Kashmir* (43 F/16; 34° 11' 30" : 73° 53'), Trias and Infra-Trias. D. N. W., **R**, LXV, 211.
- Nardha, *Datia* (54 J/16; 26° 13' : 78° 48'), galena. D. N. W., **R** LIV, 341.
- Nardupur, *Keonjhar* (73 G/9; 21° 59' 30" : 85° 33'), granite-porphyry. E. H. P., **R**, LXI, 98.
- Narenpur, *Bundi* (45 O/7; 25° 28' 30" : 75° 30'), copper- and iron-ores. A. L. C., **R**, LX, 191.
- Narganjo, *Santal Parganas* (72 P/7; 24° 25' : 87° 24'), fire-clay. M. S. **R**, XXXVIII, 142=Nargunjo.
- Nargujoo, *Monghyr* (72 L/6; 24° 44' : 86° 28'), mylonite. T. H. H., **M**, XXXIV, 53.
- Nargund, *Dharwar* (48 M/6; 15° 43' 30" : 75° 23'), basal beds, Kaladgi series. R. B. F., **M**, XII, 103; Dharwar rocks. **R**, XXI, 49; J. M. M., **R**, XXXIV, 99 (Pl. ix).
- Nargunjo, *Santal Parganas* (72 P/7; 24° 25' : 87° 24'), trap dyko. V. B., **M**, XIII, 220=Narganjo.
- Narh, *Rawalpindi* (43 G/10; 33° 44' : 73° 33'), plateau, Siwalik beds. D. N. W., **M**, LI, 354 (Pl. viii, figs. 1, 2).
- Nari R., *Sibi* (34 O/14; 29° 39' : 67° 51'), Manchhar beds. C. L. G., **M**, XVIII, 15 (Pl. i, figs. 2-4); W. T. B., **M**, XX, 198.
- Nari R., *Sind* (35 N/2; 26° 36' : 67° 15'), Oligocene beds. W. T. B., **R**, IX, 15; **M**, XVII, 49.
- Narihalla R., *Sandur* (57 A/12; 15° 4' : 76° 32'), gorges in Dharwar rocks. R. B. F., **M**, XXV, 92, 109; (Pls. iv & 5, a); section, 95 (Pl. iii).
- Naringypaudy (Nerinjipadi), *N. Arcot* (57 L/16; 12° 4' : 78° 52'), iron-ore bed. W. K., **M**, IV, 291.

- Narjampalli, *Anantapur* (57 J/2;  $14^{\circ} 32' 30''$  :  $78^{\circ} 1'$ ), steatite. F. R. M., **R**, XXII, 62.—Nerijamupalle.
- Narkanda, *Simla* (53 E/7;  $31^{\circ} 15' 30''$  :  $77^{\circ} 28'$ ), mica and graphitic schists. H. B. M., **M**, III, pt. 2, 39; quartz-diorite, petrology. C. A. M., **R**, XIX, 74; Jutogh and Chail beds. G. F. P., **M**, LIII, 116.
- Narkondam, *Andaman Sea* (86 K/7;  $13^{\circ} 25'$  :  $94^{\circ} 16'$ ), volcano. V. B., **R**, VI, 88; E. H. P., **M**, XL, 47.—Narcondam.
- Narkuni R., *Rewah* (63 H/15;  $24^{\circ} 27'$  :  $81^{\circ} 46'$ ), origin of gorge. R. D. O., **M**, XXXI, 51.
- Narma, *Ranchi* (73 A/7;  $23^{\circ} 25'$  :  $84^{\circ} 19'$ ), bauxite. C. S. F., **M**, XLIX, 180.
- Narnaul, *Patiala* (53 D/4;  $28^{\circ} 3'$  :  $76^{\circ} 6'$ ), gem kyanite. P. N. B., **R**, XXXIII, 59; marble. E. H. P., **R**, LII, 299.
- Narnaveram (Narayanavaram), *Chittoor* (57 C/11;  $13^{\circ} 25' 30''$  :  $79^{\circ} 35' 30''$ ), Cuddapah quartzites. R. B. F., **R**, XII, 197.
- Narola, *Surguja* (64 M/2;  $23^{\circ} 40'$  :  $83^{\circ} 9'$ ), Raniganj stage, *Glossopteris*. O. F., **R**, XIII, 68.
- Narookot, *Rewa Kantha* (46 F/11;  $22^{\circ} 23'$  :  $73^{\circ} 41' 30''$ ), Champaner beds. W. T. B., **M**, VI, 340.
- Narpo, *Jaintia Hills* (83 C/8;  $25^{\circ} 10'$  :  $92^{\circ} 23'$ ), coal seam. P. N. B., **A. R.**, 1902, 19; R. R. S., **M**, XLI, 25.
- Narrainkuri, *Burdwan* (73 M/2;  $23^{\circ} 35' 30''$  :  $87^{\circ} 6'$ ), colliery. W. T. B., **M**, III, 93, 158; R. R. S., **M**, XLI, 46.
- Narrainpur, *Manbhum* (73 I/14;  $23^{\circ} 40' 30''$  :  $86^{\circ} 47'$ ), coal seam. W. T. B., **M**, III, 118.
- Narrainpur, *Saugor* (55 I/14;  $23^{\circ} 39'$  :  $78^{\circ} 54'$ ), Intertrappean fossils. J. G. M., **M**, II, 203.
- Narrakal, *Cochin* (58 B/4;  $10^{\circ} 2' 30''$  :  $76^{\circ} 13'$ ), mud bank. W. K., **R**, XVII, 15 (Pl. i); R. D. O., **R**, XVII, 190; P. L., **R**, XXIII, 44; analysis of mud. R. G. Neilson, **R**, XXXIV, 40.
- Narravada, *Nellore* (57 N/5;  $14^{\circ} 54'$  :  $79^{\circ} 25'$ ), barytes. H. C. J., **R**, XXXVI, 233.
- Narsarha, Permo-Carboniferous fossils, *see* Umaria.
- Narsingarh, *Bhopal* (55 E/2;  $23^{\circ} 43'$  :  $77^{\circ} 5'$ ), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 254.
- Narsingdi, *Dacca* (79 I/9;  $23^{\circ} 55'$  :  $90^{\circ} 43'$ ), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 329.
- Narsinghpur, *Singhbhum* (73 F/10;  $22^{\circ} 31'$  :  $85^{\circ} 33'$ ), granite veins. J. A. D., **M**, LIV, 129.
- Narsinghpur, *Singhbhum* (73 J/6;  $22^{\circ} 44' 30''$  :  $86^{\circ} 26' 30''$ ), potstone. L. L. F., **R**, LII, 302.
- Nartiang, *Jaintia Hills* (83 C/2;  $25^{\circ} 34'$  :  $92^{\circ} 13'$ ), granite. P. N. B., **A. R.**, 1901, 24.
- Narub, *Hazara* (43 G/1;  $33^{\circ} 59'$  :  $73^{\circ} 14'$ ), Trias-Eocene, section. C. S. M., **M**, XXVI, 152 (fig.).
- Narwal, *Punch* (43 G/10;  $33^{\circ} 43'$  :  $73^{\circ} 41' 30''$ ), travertine. D. N. W., **M**, LI, 366.
- Narwar, *Rewah* (63 H/4;  $24^{\circ} 6'$  :  $81^{\circ} 11' 30''$ ), L. Vindhyan beds. R. D. O., **M**, XXXI, 111.

- Nasik, *Bombay* (47 E/13; 20° 0' : 73° 47'), alluvial basin. E. V., **R**, XXXIII, 38.
- Nasik (Nakus), *Sibi* (34 N/16; 30° 8' : 67° 50'), coal seams. W. K., **R**, XXII, 150; building stone. R. D. O., **R**, XXIII, 109.
- Nasirda, *Jaipur* (45 O/5; 25° 57' : 75° 23'), mica. A. M. H., **R**, LIV, 389.
- Nasirnagar, *Tippera* (70 M/1; 23° 58' : 91° 7'), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 332.
- Nasora (Gali, *Punch* (43 K/3; 33° 29' : 74° 4'), 'Great limestone', inlier. D. N. W., **M**, LI, 322.
- Naspur, *Adilabad* (56 N/5; 18° 51' : 79° 28'), Talchir beds. T. W. H. H., **R**, XI, 19.
- Nataran, *Akyab* (84 C/16; 21° 5' : 92° 54'), oil seepage. E. H. P., **M**, XI, 199.
- Nat-Gyi-Zin (Yebusan), *Tavoy* (95 J/2; 14° 43' 30" : 98° 10'), hot spring. T. O., **M**, XIX, 153.
- Nathdwara, *Mewar* (45 H/13; 24° 56' : 73° 49'), marble. E. H. P., **R**, LX, 48; syncline, Delhi series, 110.
- Nathial, *Attock* (43 C/7; 33° 24' 30" : 72° 24'), fault. E. H. P., **R**, LXI, 127.
- Natkyizin, *Tavoy* (95 F/13; 14° 55' 30" : 97° 56' 30"), porphyry. J. C. B., **M**, XLIV, 190; cassiterite, 216; corussite, 223.
- Natlabo, *L. Chindwin* (84 N/3; 22° 18' : 95° 1' 30"), basaltic tuff. E. H. P., **R**, LXI, 109.
- Natma, *L. Chindwin* (84 J/10; 22° 38' : 94° 32'), Natma series, Tertiary. E. H. P., **R**, LXII, 105.
- Natogyi, *Myingyan* (84 O/11; 21° 25' : 95° 40'), Burma earthquakes, 1912. J. C. B., **M**, XLII, 51, 121.
- Natpa, *Bashahr* (53 E/14; 31° 34' 30" : 77° 58'), hot spring. T. O., **M**, XIX, 122.
- Natrani R., *Las Bela* (35 K/13; 25° 46' : 69° 53'), Liassic fossils. T. H. H., **R**, XXXVIII, 26.
- Nat-taung, *Shwabo* (84 N/13; 22° 47' : 95° 49'), lava flow. G. E. G., **A. R.**, 1898, 50.
- Nattaung, *Toungoo* (94 B/16; 18° 8' : 96° 58'), Chaung Magyi beds. E. L. C., **R**, LX, 233.
- Nattoias, *Thuyatmya* (85 J/13; 18° 53' : 94° 55'), serpentine. W. T., **M**, X, 335.
- Natyin Daung, *L. Chindwin* (84 J/14; 22° 31' : 94° 57'), iron-ore. E. H. P., **R**, LXI, 63, 104; basalt, 103.
- Nau, *Idar* (45 H/4; 24° 13' 30" : 73° 2'), amphibolite-limestone. C. S. M., **M**, XLIV, 49.
- Nauga (Navge), *Belgaum* (48 I/5; 15° 47' 30" : 74° 26'), bauxite. C. S. F., **M**, XLIX, 65.
- Naukachia Tal, *Naini Tal* (53 O/11; 29° 19' : 79° 35'), origin of lake. V. B., **R**, XI, 180; W. T., **R**, XIII, 168.
- Naul Tirth, *Belgaum* (48 M/1; 15° 49' : 75° 6'), gorge in Kaladgi quartzite. R. B. F., **M**, XII, 98 (Pl. v).
- Naulgund (Navalgund), *Dharwar* (48 M/6; 15° 33' : 75° 21'), quartz reef (?). R. B. F., **R**, XXI, 40.
- Naungbwa, *Merqui* (96 M/5; 11° 51' : 99° 29'), oil shales. M. V. R., **R**, LIV, 342.
- Naunghkam, *N. Shan States* (93 F/3; 22° 27' : 97° 6' 30"), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 200 (note).

- Naungkangyi, *Mandalay* (93 B/8;  $22^{\circ} 4' : 96^{\circ} 27' 30''$ ), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 67, 89; Zebingyi beds, Silurian, 170.
- Naung-khet, *U. Chindwin* (83 P/1;  $24^{\circ} 50' 30'' : 95^{\circ} 12'$ ), alluvial gold. H. S. B., **R**, XLIII, 256.
- Naungkwo, *Amherst* (95 E/13;  $15^{\circ} 50' : 97^{\circ} 55'$ ), bone cavo. E. H. P., **R**, LXIII, 97.
- Naung-san-kyin, *U. Chindwin* (83 L/14;  $24^{\circ} 44' : 91^{\circ} 47'$ ), alluvial gold. H. S. B., **R**, XLIII, 254.
- Nauraghat, *Sirmur* (53 F/5;  $30^{\circ} 49' : 77^{\circ} 25'$ ), granite. G. E. P., **M**, LIII, 54; hornblende-schist, 58; marble, Jutogh series, 79-Nhara.
- Nausar, *Jodhpur* (40 O/13;  $25^{\circ} 47' : 71^{\circ} 52'$ ), Barmer sandstones. T. D. L., **M**, XXXV, 74=Naosir.
- Naushara, *Kashmir* (43 J/4;  $34^{\circ} 9' 30'' : 74^{\circ} 14'$ ), gneiss. R. L., **R**, XII, 30=Nowsheera.
- Nautal, *Chhindwara* (55 K/13;  $21^{\circ} 47' : 78^{\circ} 51' 30''$ ), marble. H. H. H., **R**, XLIII, 33; origin. C. S. M., **R**, XLV, 101.
- Nautan-Barampur, *Ganjam* (74 E/2;  $19^{\circ} 37' : 85^{\circ} 2'$ ), rhodonite. L. L. F., **M**, XXXVII, 141, 182; manganese-ore, 1036; garnet-rock, petrology. **R**, LIX, 193.
- Nauti (Sonj) R., *Simla* (53 E/8;  $31^{\circ} 9' : 77^{\circ} 18'$ ), Chail and Shali limestones. G. E. P., **M**, LIII, 114, 123.
- Nauwada, *Hazaribagh* (72 H/11;  $24^{\circ} 27' : 85^{\circ} 44' 30''$ ), cerussite. F. R. M., **R**, VII, 35.
- Navalpur, *Idar* (46 E/2;  $23^{\circ} 35' 30'' : 73^{\circ} 9'$ ), Aravalli schists and pegmatites. C. S. M., **M**, XLIV, 62.
- Navugam, *Idar* (46 E/6;  $23^{\circ} 44' : 73^{\circ} 24'$ ), Delhi quartzite and Phyllite series. C. S. M., **M**, XLIV, 95, 112.
- Nawa, *N. Shan States* (93 J/3;  $22^{\circ} 24' : 98^{\circ} 9' 30''$ ), spherulitic lava. T. D. L., **M**, XXXIX, pt. 2, 58.
- Nawabganj, *Dacca* (79 I/2;  $23^{\circ} 40' : 90^{\circ} 9'$ ), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 329.
- Nawabshah, *Sind* (40 B/8;  $26^{\circ} 14' 30'' : 68^{\circ} 24' 30''$ ), alkaline lakes. G. C., **M**, XLVII, 249.
- Nawada, *Gaya* (72 H/9;  $24^{\circ} 53' : 85^{\circ} 32'$ ), soda salts. L. J. F., **R**, LII, 301.
- Nawadih, *Monyhyr* (72 L/5;  $24^{\circ} 47' : 86^{\circ} 23'$ ), mica. T. H. H., **M**, XXXIV, 45; columbite, 51; C. L. G., **R**, XXVIII, 10; tantalite. T. H. H., **R**, XXXIX, 270.
- Nawagam, *Kathiawar* (41 N/3;  $22^{\circ} 25' : 71^{\circ} 3'$ ), Intertrappean beds, fish remains. F. F., **M**, XXI, 99.
- Nawagaon, *Idar* (46 E/6;  $23^{\circ} 39' : 73^{\circ} 29'$ ), phyllites. C. S. M., **M**, XLIV, 115.
- Nawagarh, *Raipur* (64 L/3;  $20^{\circ} 29' : 82^{\circ} 11'$ ), laterite. C. S. F., **M**, XLIX, 163.
- Nawai, *Jaipur* (45 N/15;  $26^{\circ} 22' : 75^{\circ} 55' 30''$ ), Alwar quartzite. A. M. H., **R**, LIV, 360; rock-crystal, 389; steatite, 391.
- Nawan, *Jammu* (43 G/10;  $33^{\circ} 32' : 73^{\circ} 40'$ ), M. Siwalik anticline. D. N. W., **M**, LI, 361.
- Nawapali (Noapali), *Sambalpur* (64 O/10;  $21^{\circ} 41' : 83^{\circ} 42' 30''$ ), meteorite. J. C. B., **M**, XLIII, 244.



- Nawapet, *Atraf-i-Balda* (56 K/6; 17° 43' : 78° 24'), Lameta shales. E. H. P., **R**, LVI, 49; *Indonaria pascoei*. B. P., **R**, LX, 311 (Pl. xxv, figs. 4, 5).
- Nawatola, *Bhandara* (64 C/4; 21° 11' 30" : 80° 2' 30"); dolomitic marble, Bichua stage. L. L. F., **R**, LXV, 109.
- Nawatoli, *Singhbhum* (73 F/2; 22° 34' : 85° 11'), phyllites after tuff. J. A. D., **M**, LIV, 40, 65; agglomerate, 87.
- Nawawas, *Idar* (46 A/13; 23° 56' 30" : 72° 51' 30"), calc-gneiss. C. S. M., **M**, XLIV, 13; biotite-gneiss, 23.
- Nawegaon, *Bhandara* (55 O/16; 21° 12' : 79° 53'), chlorite-muscovite-schist, analysis. E. H. P., **R**, LXIII, 116; S. K. C., **R**, LXV, 286.
- Nawhkum, *Myitkyina* (92 C/10; 25° 39' : 96° 32' 30"), gem stones. E. H. P., **R**, LXIII, 49.
- Nawngghkam, *N. Shan States* (93 F/3; 22° 27' : 97° 7'), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 290 (note).
- Nawngghkio (E.), *N. Shan States* (93 F/3; 22° 26' 30" : 97° 6'), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 290 (note).
- Nawngghkio (W.), *N. Shan States* (93 B/15; 22° 20' : 96° 48'), Plateau limestone, analysis. T. D. L., **M**, XXXIX, pt. 2, 188; oolitic limestone, 192 (Pl. xiii, fig. 2); peat, 330; Burma earthquake, 1912. J. C. B., **M**, XLII, 35; after-shocks, 130.
- Nawngkwang, *N. Shan States* (93 F/3; 22° 23' : 97° 8' 30"), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 290 (note).
- Nawng-leng, *N. Shan States* (93 F/2; 22° 30' : 97° 7' 30"), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 290 (note).
- Nawngping, *N. Shan States* (93 B/15; 22° 21' 30" : 96° 55'), Rhætic fossils. T. D. L., **M**, XXXIX, pt. 2, 287, 301.
- Nawngput, *N. Shan States* (93 E/7; 23° 28' : 97° 24'), sericitised granite. E. H. P., **R**, LXIII, 92.
- Nawng-tao, *N. Shan States* (93 F/14; 22° 30' 30" : 97° 58'), volcanic dome. T. D. L., **R**, XXXVI, 41 (Pls. x, xi).
- Nawng-yun, *N. Shan States* (93 J/7; 22° 20' 30" : 98° 19'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 95.
- Nayadeeh, *Manbhum* (73 I/5; 23° 46' 30" : 86° 24'), coal seam, section. T. W. H. H., **M**, V, 254.
- Nayakund, *Nagpur* (55 O/3; 21° 22' : 79° 12'), manganese-ore. L. L. F., **M**, XXXVII, 961.
- Na-yuk, *Ruby Mines* (93 B/9; 22° 49' 30" : 96° 36'), tourmaline gravels. T. D. L., **M**, XXXIX, pt. 2, 47.
- Nazardeo, *E. Khandesh* (46 O/7; 21° 19' : 75° 21'), hot spring. T. O., **M**, XIX, 134.
- Nazareth, *Tinnevely* (58 H/14; 8° 34' : 77° 58'), fossil wood in sand hills. R. B. F., **M**, XX, 95.
- Nuzira, *Sibsagar* (83 J/9; 26° 55' : 94° 44'), coalfield. F. R. M., **M**, XII, 328 (Pl. iii); R. R. S., **R**, XXXIV, 215 (Pls. xxvi, xxvii); **M**, XLI, 19; oil seepages. E. H. P., **M**, XL, 285 (Pl. lix).
- Nbawn, *Hukawng* (92 B/15; 26° 21' : 96° 59'), alluvial gold. L. L. F., **R**, LXV, 49.

- Nehongbum, *Singpho Hills* (92 A/6; 27° 32' : 96° 28'), gas spring. T. D. L., **R**, XIX, 112; E. H. P., **M**, XI, 308.
- Neagaon, *Bundi* (45 O/10; 25° 30' : 75° 32'), copper-ore. A. L. C., **R**, LX, 101.
- Nechung, *Tibet* (77 O/2; 29° 41' : 91° 5'), Cretaceous fossils. H. H. H., **M**, XXXVI, 160.
- Nedagolla, *Vizagapatam* (65 N/6; 18° 41' 30" : 83° 25'), meteorite. J. C. B., **M**, XLIII, 244.
- Neddiem (Nediyam), *Chittoor* (57 O/7; 13° 20' : 79° 30'), granite tors. R. B. F., **R**, XII, 194.
- Neddiwattam, *Nilgiri* (58 A/11; 11° 28' 30" : 76° 32'), hard bands in gneiss. H. F. B., **M**, I, 223 (fig.).
- Needle-rock, *Nilgiri* (58 A/7; 11° 29' : 76° 23'), Dharwar quartzite. H. H. H., **M**, XXXIII, pt. 2, 14.
- Neemuch, *Mandasor* (45 L/15; 24° 28' : 74° 53'), Vindhyan sandstones. F. R. M., **M**, VII, 62; fossils. E. H. P., **R**, LX, 18; LXI, 21=Nimach.
- Neethehar, *Bharatpur* (54 F/1; 26° 58' : 77° 2'), Kaimur breccia. F. R. M., **M**, VII, 59=Nithahar.
- Negapatam, *Tanjore* (58 N/13; 10° 45' 30" : 79° 51'), sand dunes. W. K., **M**, IV, 250; tidal wave, earthquake, 1881. R. D. O., **R**, XVII, 48.
- Nehal Naddi, *Naini Tal* (53 O/7; 29° 18' : 79° 23'), gypsum. C. S. M., **R**, XXII, 137 (Pl. vi); **M**, XXIV, 78.
- Nehari, *Simla* (53 E/8; 31° 7' : 77° 16'), Jaunsar quartzite. G. E. P., **M**, LII, 118.
- Neighemullay (Neyyamalai), *Salem* (58 I/5; 11° 47' : 78° 28' 30"), iron-ore beds. W. K., **M**, IV, 280.
- Neill I., *Andamans* (87 E/1; 11° 50' : 93° 3'), Echinoid beds. E. R. G., **R**, LIX, 218.
- Neinalmullay (Nainar Malai), *Salem* (58 I/3; 11° 19' : 78° 11' 30"), iron-ore beds. W. K., **M**, IV, 287.
- Nelam hill, *Jeypore* (65 J/11; 18° 17' : 82° 39'), laterite. C. S. M., **A. R.**, 1902, 23.
- Nellakota, *Nilgiri* (58 A/6; 11° 33' : 76° 25'), charnockite. H. H. H., **M**, XXXIII, pt. 2, 13; mica-pegmatite. T. H. H., **M**, XXXIV, 65.
- Nellapur, *Bellary* (57 A/11; 15° 18' : 76° 34'), brecciated quartz reef (fault-rock). R. B. F., **M**, XXV, 174.
- Nellimarla, *Vizagapatam* (65 N/8; 18° 11' : 83° 28'), manganese-ore. L. L. F., **M**, XXXVII, 434, 462, 1048.
- Nellere, *Madras* (57 N/15; 14° 27' : 79° 59'), Cuddalore sandstones. W. K., **M**, XVI, 177.
- Nelseri (Nesargi), *Belgaum* (48 I/13; 15° 54' : 74° 46' 30"), crystalline limestones. R. B. F., **M**, XII, 57; oolitic limestone, Intertrappean, 198.
- Nehung, *Tibet* (71 L/6; 28° 39' : 86° 25'), Cretaceous syncline. A. M. H., **R**, LIV, 228; basic dykes, 231.
- Nemao Tola (Nimutola), *Khairagarh* (64 C/15; 21° 24' 30" : 80° 45' 30"), basaltic rocks, Chilpi Ghat series. P. N. B., **R**, XXI, 60.
- Nemeli (? Nemam), *S. Arcot* (58 M/7; 11° 28' : 79° 20'), pyroxene-aphanite, petrology. T. H. H., **R**, XXX, 36.

- Nemillygoondum Pagoda; *Kurnool* (57 I/14; 15° 31' : 78° 52'), quartzites, Kistna series. W. K., **M**, VIII, 246.
- Nemini, *Malabar* (58 A/4; 11° 3' 30" : 76° 13'), iron-ore. P. L., **M**, XXIV, 228, 237.
- Nemkal, *Bellary* (57 A/16; 15° 1' : 76° 56'), Dharwar beds, section. R. B. F., **M**, XXV, 147 (Pl. vi).
- Neo (Nyu) Chu, *Tibet* (71 L/15; 28° 28' : 86° 52'), Cretaceous syncline. A. M. H., **R**, LIV, 228.
- Nerabal, *Simla* (53 E/4; 31° 7' 30" : 77° 7' 30"), Blaini beds. E. H. P., **R**, LX, 23.
- Nerbudda bridge, *Jubbulpore* (55 M/12; 23° 6' : 79° 37'), *Viviparus hasani*. B. P., **R**, LXIII., 428 (Pl. xix, figs. 1-3).
- Nerbudda shoal, *Kyaukpnyu* (85 F/15; 18° 21' : 93° 56'), mud volcano. J. C. B., **R**, XXXVII, 275.
- Nerdy Cunnama, *Kurnool* (57 M/3; 15° 26' : 79° 13'), Nullamalai quartzites. W. K., **M**, VIII, 224 (fig.).
- Nerian, *Punch* (43 K/1; 33° 48' 30" : 74° 14'), Panjal trap, ash beds. D. N. W., **M**, LI, 240; Permian fossils, 251, 304.
- Nerijampuralle, *Anantapur* (57 J/2; 14° 32' 30" : 78° 1'), barytes. A. L. C., **R**, LX, 431—Narjampalli.
- Nerjec (Narji), *Cuddapah* (57 J/10; 14° 39' : 78° 31'), limestone quarries. W. K., **M**, VIII, 70.
- Nero hill, *Hazuribagh* (72 H/11; 24° 28' : 85° 39' 30"), dome-gneiss. T. H. H., **M**, XXXIV, 47.
- Nerolec, *Baroda* (46 G/3; 21° 23' : 73° 6'), Eocene laterite. W. T. B., **M**, VI, 368 = Narauli.
- Nerrahyle (Nerahyly), *Chittoor* (57 O/2; 13° 45' : 79° 10'), iron smelting. W. K., **M**, VIII, 281.
- Nersa, *Belgaum* (48 I/6; 15° 35' 30" : 74° 27'), manganese-ore. L. L. F., **M**, XXXVII, 639; E. H. P., **R**, LXI, 64.
- Nerua, *Korva* (64 I/3; 23° 24' 30" : 82° 7' 30"), coal seam. T. W. H. H., **M**, XXI, 196, 243.
- Nerua, *Simla* (53 F/9; 30° 55' : 77° 38' 30"), Deobari limestone. E. H. P., **R**, LXII, 166.
- Nesari, *Kolhapur* (47 I/8; 16° 3' : 74° 20'), Dharwar rocks. H. C. J., **R**, LIV 417; bauxite, 425; gold (?), 427.
- Netra, *Bulaghat* (64 C/1; 21° 51' : 80° 0' 30"), manganese-ore. C. S. M., **R**, XLV, 116.
- Netrakona, *Mynensingh* (78 L/9; 24° 53' : 90° 44'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 331; Srimangal earthquake, 1918. M. S., **M**, XLVI, 23.
- Neturhat, *Palamau* (73 A/7; 23° 29' : 84° 16'), lateritic iron-ore. V. B., **M**, XV, 49, 120; bauxite. C. S. F., **M**, XLIX, 165; analysis. L. L. F., **R**, LIII, 251.
- Neweli R., *Sirmur* (53 F/10; 30° 39' : 77° 42'), Krol series (?). H. B. M., **M**, III, pt. 2, 45; glaciated boulders in Blaini beds. G. E. P., **M**, LIII, 131—Nairak.

- Neyaungya, *S. Shan States* (93 C/8;  $21^{\circ} 8' : 96^{\circ} 18'$ ), wolfram. T. H. H., **R**, XXXIX, 279.
- Neykkulam, *Trichinopoly* (58 I/16;  $11^{\circ} 3' 30'' : 78^{\circ} 50' 30''$ ), reptilian remains. C. A. Matley, **R**, LXI, 348=Naicolum.
- Nezatash pass, *Kashgar* (42 K/14;  $37^{\circ} 36' : 74^{\circ} 57'$ ), Sarikol shales and Pamir limestone. H. H. H., **R**, XLV, 306.
- Nezatash pass, *Russian Turkestan* (42 G/13;  $37^{\circ} 56' : 73^{\circ} 57'$ ), gorge in Pamir limestone. H. H. H., **R**, XLV, 313.
- Ngagahtawng, *Hukawng* (92 F/4;  $26^{\circ} 11' : 97^{\circ} 3'$ ), alluvial gold. L. L. F., **R**, LXV, 50, 79.
- Ngahlaingdwin, *Minbu* (84 L/6;  $20^{\circ} 41' : 94^{\circ} 23'$ ), oilfield. E. H. P., **M**, XL, 145. C. P., **R**, XLV, 249 (fig. & Pls. xxv, xxvi).
- Ngai-tao, *N. Shan States* (93 F/5;  $22^{\circ} 56' : 97^{\circ} 21' 30''$ ), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 95; Llandovery graptolites, 128.
- Ngalapwe, *Ramri I.* (85 E/11;  $19^{\circ} 24' 30'' : 93^{\circ} 33'$ ), oil refinery. E. H. P., **M**, XL, 191.
- Ngan-khyoung, *Bassein* (85 L/3;  $16^{\circ} 21' : 94^{\circ} 14' 30''$ ), mud volcano. W. T., **M**, X, 307.
- Ngape, *Minbu* (84 L/8;  $20^{\circ} 4' 30'' : 94^{\circ} 28'$ ), Eocene beds. G. C., **R**, XLI, 227 (Pl. xxi); oil seepages. E. H. P., **M**, XL, 168; Burma earthquake, 1912. J. C. B., **M**, XLII, 63=Napeh.
- Ngaputaw, *Bassein* (85 L/10;  $16^{\circ} 32' 30'' : 94^{\circ} 42'$ ), trachyte. W. T., **M**, X, 330; E. H. P., **M**, XL, 47.
- Ngashandaung, *Myingyan* (84 P/2;  $20^{\circ} 38' 30'' : 95^{\circ} 4'$ ), oilfield. G. C., **R**, XXXV11, 229 (Pls. x, xi); E. H. P., **M**, XL, 133.
- Nga-tha-mu, *Bassein* (85 L/6;  $16^{\circ} 32' : 94^{\circ} 16'$ ), calcareous sandstone, ? Miocene. W. T., **M**, X, 277, 340.
- Ngathe (Nathe), *Thayetmyo* (85 M/3;  $19^{\circ} 21' : 95^{\circ} 4'$ ), Plateau Red Earth. E. H. P., **M**, XL, 173.
- Nga-theing-kyoung (Ngathainggyaung), *Bassein* (85 O/3;  $17^{\circ} 24' : 95^{\circ} 4'$ ), 'image' stone. W. T., **M**, X, 293.
- Ngawan R., *Mergui* (96 M/2;  $11^{\circ} 43' : 99^{\circ} 11'$ ), tin-ore. E. H. P., **R**, LV, 29; Mergui series, 32.
- Ngawchang, *Myitkyina* (92 K/5;  $25^{\circ} 59' : 98^{\circ} 18'$ ), crystalline limestone. M. S., **R**, LIV, 407.
- Ngu (Ngot-ko-Yagyi), *S. Shan States* (93 D/9;  $20^{\circ} 53' : 96^{\circ} 38'$ ), coal seams. E. J. J., **R**, XX, 189; C. S. M., **A. R.**, 1900, 149; R. R. S., **M**, XLI, 69.
- Ngwetaung, *Mandalay* (93 C/5;  $21^{\circ} 59' : 96^{\circ} 17'$ ), Ordovician sandstones. T. D. L., **M**, XXXIX, pt. 2, 66.
- Nhara, *Sirmur* (53 F/5;  $30^{\circ} 49' : 77^{\circ} 25'$ ), hornblende-schist, petrology. C. A. M., **R**, XX, 116=Nauraghat.
- Nibhora, *Narsinghpur* (55 J/13;  $22^{\circ} 46' : 78^{\circ} 59'$ ), Bagra beds. H. B. M., **M**, X, 150; Tulehir beds. E. H. P., **R**, LXII, 131.
- Nichahom, *Kashmir* (43 J/3;  $34^{\circ} 23' 30'' : 74^{\circ} 8' 30''$ ), lignite seams. C. S. M., **R**, LV, 247; underground fire, 252.
- Nichinai, *Kashmir* (43 N/3;  $34^{\circ} 20' : 75^{\circ} 12'$ ), Panjal trap flows, Permian. C. S. M., **R**, XLV, 134.

- Nichinpur, *Sylhet* (83 C/4; 25° 6' 30" : 92° 11'), U. Tertiary beds. P. N. B., **A. R.**, 1902, 26.
- Nicholson I., *Andamans* (86 D/16; 12° 6' : 92° 58'), Archipelago clays. E. R. G., **R.**, LIX, 220.
- Niehu Guard, *Naga Hills* (83 G/13; 25° 48' : 93° 48'), Miocene fossils. E. H. P., **R.**, LXI, 19.
- Niddagurti, *Bellary* (57 A/8; 15° 1' : 76° 26'), brecciated quartz reef (fault-rock). R. B. F., **R.**, XIX, 109; **M.**, XXV, 175.
- Nidigullum, *Vizagapatam* (65 N/6; 18° 41' 30" : 83° 25'), meteoric iron. C. L. G., **A. R.**, 1900, 4.
- Nigaili, *Sirmur* (53 F/5; 30° 51' : 77° 16'), Jaunsar beds. G. E. P., **M.**, LIII, 14.
- Nigana, *Hissar* (44 P/13; 28° 47' : 75° 55'), granite, petrology. C. A. M., **R.**, XVII, 114.
- Nijkel, *Ranchi* (73 F/5; 22° 59' : 85° 28'), intrusion of granite. J. A. D., **M.**, LIV, 118.
- Niki, *Mianwali* (38 P/13; 32° 58' : 71° 48'), Siwalik fossils. R. L., **R.**, XI, 65; G. E. P., **R.**, XLIII, 265.
- Nikial, *Punch* (43 K/3; 33° 29' : 74° 4' 30'), dolomitised limestone. D. N. W., **M.**, LI, 254; coal, 264; L. Murree fossils, 269; pyritous shales, 369.
- Nikkiwali, *Shahpur* (43 D/2; 32° 37' 30" : 72° 8'), oil seepage. E. H. P., **M.**, XL, 437.
- Nilā (N.), *Jhelum* (43 C/12; 33° 10' : 72° 36' 30"), *Caulleya amuliger*. W. T., **R.**, XII, 186 (Pl. x); basal beds, U. Siwalik. E. H. P., **R.**, LXII, 150.
- Nilā (S.), *Jhelum* (43 D/14; 32° 39' : 72° 53' 30"), coal seam. R. R. S., **M.**, XLI, 109.
- Nilabgash, *Kohat* (38 O/14; 33° 44' : 71° 58'), nummulitic limestone. A. B. W., **R.**, X, 114; XII, 102; W. W., **R.**, XVII, 123; C. L. G., **R.**, XXV, 100.
- Nilajhar, *Betul* (55 K/9; 21° 55' 30" : 78° 30'), Deccan trap boundary. H. H. II., **R.**, XLIII, 35.
- Nilambur, *Malabar* (58 A/3; 11° 17' : 76° 13' 30"), hornblendic gneiss. P. L., **M.**, XXIV, 213; alluvial gold, 238.
- Nilang, *Garhwal* (53 M/4; 31° 6' 30" : 79° 0' 30"), granite and slates. C. L. G., **M.**, XXIII, 196.
- Nilawan, *Jhelum* (43 D/10; 32° 36' : 72° 38'), Cambrian-Eocene, section. A. B. W., **M.**, XIV, 188 (Pl. xx); E. H. P., **R.**, LXII, 161; Cambrian sequence. C. S. F., **R.**, LXI, 166, 178 (Pls. ix & xii-xiv); potash salts. W. K. C., **R.**, XLIV, 247 (fig.); M. S., **R.**, L, 36.
- Nilgalgunta, *Vizagapatam* (65 N/4; 18° 12' : 83° 1' 30"), crystalline limestone. W. K., **R.**, XIX, 153.
- Nilgiri, *Orissa* (73 K/15; 21° 27' : 86° 46'), gneissose granite. W. T. B., **M.**, I, 261.
- Nilgunda, *Bellary* (48 N/14; 14° 44' : 75° 53' 30"), potstone. R. B. F., **M.**, XXV, 34, 203; pyroxene-rock, petrology. T. H. H., **R.**, XXX, 30.
- Nil hill, *Jhelum* (43 G/8; 33° 1' : 73° 17'), brine spring. A. B. W., **M.**, XIV, 48.
- Nilja, *Yeotmal* (56 M/1; 19° 59' : 79° 5'), boring for coal, section. T. W. H. H., **M.**, XIII, 50.
- Nilkanta pass, *Kashmir* (43 K/5; 33° 59' : 74° 18'), Panjal beds. R. L., **M.**, XXII, 214; Gondwana beds. D. N. W., **M.**, LI, 300 (Pl. v, fig. 1).

- Nilnag, *Kashmir* (43 K/9;  $33^{\circ} 51'$  :  $74^{\circ} 42'$ ), landslips. C. S. M., **R**, XII, 120.
- Nilphamari, *Rangpur* (78 C/13;  $25^{\circ} 56'$  :  $88^{\circ} 50'$ ), earthquake, 1897, effect on railway. R. D. O., **M**, XXIX, 172 (Pl. viii); fissures, 280, 319.
- Nilt, *Chitral* (42 L/8;  $36^{\circ} 14' 30''$  :  $74^{\circ} 26'$ ), metamorphic rocks. H. H. H., **R**, XLV, 297.
- Nimach, *Mandasor* (45 L/15;  $24^{\circ} 28'$  :  $74^{\circ} 53'$ ), Delhi series. C. A. H., **R**, XIV, 292; earthquake, 1897. R. D. O., **M**, XXIX, 50 = Neemuch.
- Nimaksar, *Afghan-Turkestan* (29 E/10;  $35^{\circ} 40'$  :  $61^{\circ} 40'$ ), *Ostrea multicosata*, C. L. G., **R**, XIX, 65; E. V., **R**, XXXVI, 318.
- Nimawar, *Indore* (55 B/15;  $22^{\circ} 30'$  :  $76^{\circ} 59'$ ), metamorphic rocks. W. T. B., **M**, VI, 191; Bijawar quartzite. P. N. B., **M**, XXI, 10.
- Nimbha, *Nagpur* (55 O/3;  $21^{\circ} 24'$  :  $79^{\circ} 5' 30''$ ), galena. L. L. F., **R**, L, 289.
- Nimbahera, *Tonk* (45 L/10;  $24^{\circ} 37'$  :  $74^{\circ} 42'$ ), Delhi series. C. A. H., **R**, XIV, 293; Vindhyan limestone. H. H. H., **R**, XLIV, 29; E. H. P., **R**, LIX, 98.
- Nimboli, *Thana* (47 E/2;  $19^{\circ} 30' 30''$  :  $73^{\circ} 1'$ ), hot spring. T. O., **M**, XIX, 107.
- Nimbuagarh, *Narsinghpur* (55 J/14;  $22^{\circ} 44'$  :  $78^{\circ} 50'$ ), Mahadeva conglomerate. J. G. M., **M**, II, 187 = Nimugarh.
- Nincha, *Burdwan* (73 M/2;  $23^{\circ} 38'$  :  $87^{\circ} 5' 30''$ ), coal seam. R. R. S., **M**, XLI, 46.
- Nimdih, *Ranchi* (73 F/9;  $22^{\circ} 51'$  :  $85^{\circ} 38'$ ), phyllites, Iron Ore series. J. A. D., **M**, LIV, 48.
- Nimga, *Dehra Dun* (53 F/13;  $30^{\circ} 51' 30''$  :  $77^{\circ} 52'$ ) albite-dolerite. G. E. P., **M**, LIII, 127.
- Nimhua, *Rewah* (64 E/11;  $23^{\circ} 18' 30''$  :  $81^{\circ} 38'$ ), coal seams. T. W. H. H., **M**, XXI, 183, 244.
- Nimi, *Jaipur* (54 A/4;  $27^{\circ} 4'$  :  $76^{\circ} 1'$ ), syncline, Ajabgarh series. A. M. H., **R**, LIV, 363.
- Nimik pass, *Chagai* (34 G/12;  $29^{\circ} 3'$  :  $65^{\circ} 32'$ ), flysch and Eocene beds. E. V., **M**, XXXI, 227 (Pl. ix, fig. 18).
- Nimji, *Nagpur* (55 K/16;  $21^{\circ} 10'$  :  $78^{\circ} 52' 30''$ ), boring for coal. L. L. F., **R**, XLVI, 56.
- Nim-ka-Khera, *Bundi* (45 O/7;  $25^{\circ} 26'$  :  $75^{\circ} 29'$ ), Sirbu shales. A. L. C., **R**, LX, 179.
- Nimkar, *Silapuri* (63 A/7;  $27^{\circ} 21'$  :  $80^{\circ} 29'$ ), geodetic station. R. D. O., **M**, XLII, 213.
- Nimkhera, *Bhopawar* (46 N/3;  $22^{\circ} 26' 30''$  :  $75^{\circ} 12'$ ), black limestone. P. N. B., **M**, XXI, 70.
- Nimla, *Jaipur* (54 A/8;  $27^{\circ} 5'$  :  $76^{\circ} 15'$ ), iron-ore. H. H. H., **R**, XLIII, 19; A. M. H., **M**, XLV, 117.
- Nimmalavalsa, *Vizagapatam* (65 N/11;  $18^{\circ} 18'$  :  $83^{\circ} 41'$ ), manganese-ore. L. L. F., **M**, XXXVII, 435, 464, 1048.
- Nimo, *Ladakh* (52 F/8;  $34^{\circ} 12'$  :  $77^{\circ} 20'$ ), Eocene beds. R. L., **R**, XIII, 37.
- Nimora, *Jaipur* (45 N/14;  $26^{\circ} 39'$  :  $75^{\circ} 59' 30''$ ), Aravalli rocks (?). A. M. H., **R**, LIV, 360.
- Nimpahari, *Birbhum* (72 P/12;  $24^{\circ} 6'$  :  $87^{\circ} 39' 30''$ ), iron-ore, assays. V. B., **M**, XIII, 248.
- Nimrana, *Alwar* (54 A/5;  $27^{\circ} 59' 30''$  :  $76^{\circ} 23'$ ), Ajabgarh series. A. M. H., **M**, XLV, 86.

- Nimrud, *Iraq* (36° 7' : 43° 26'), oil seepages. E. H. P., **M**, XLVIII, 33.
- Nimugarh, *Narsinghpur* (55 J/14 ; 22° 44' : 78° 50'), Lameta coal. H. B. M., **R**, III, 65 ; R. R. S., **M**, XLI, 87=Nimbuagarh.
- Nin, *Simla* (53 E/8 ; 31° 0' 30" : 77° 17'), cross-fault, Blaini series. G. E. P., **M**, LIII, 85.
- Ninama, *Kathiawar* (41 N/7 ; 22° 18' : 71° 20'), Intertrappean limestone. F. F., **M**, XXI, 100.
- Nindikarai, *Travancore* (58 D/9 ; 8° 57' : 76° 32'), monazite sands. G. H. T., **R**, XLIV, 187.
- Nineveh, *Iraq* (36° 21' : 43° 11'), sub-recent conglomerate. E. H. P., **M**, XLVIII, 31.
- Ningbyen, *Hukawng* (92 F/4 ; 26° 9' : 97° 4'), hornblende-gneiss. L. L. F., **R**, LXV, 77.
- Ninjar, *Saipur* (45 M/15 ; 27° 26' : 76° 0'), beryl. A. M. H., **R**, LIV, 390.
- Ninniyoor (Nanniyur), *Trichinopoly* (58 M/3 ; 11° 16' : 79° 10' 30"), Ariyalur fossils. H. F. B., **M**, IV, 141 ; *Orbitoides*. E. V., **R**, XXXVI ; 190.
- Nio Sumdo, *Ladakh* (52 G/2 ; 33° 35' : 77° 13'), Liassic fossils. C. D., **M**, XXXVI, 316=Niri Sumdo.
- Niungdon, *Ma-Ubin* (85 O/12 ; 17° 3' : 95° 38'), erosion of older alluvium. W. T., **R**, III, 24=Nyoung-don and Yandoon.
- Nirat, *Bashahr* (53 E/11 ; 31° 22' : 77° 32' 30"), gneissose granite. C. A. M., **R**, XIX, 66=Nirth.
- Nirgudda hills, *Chitaldrug*, (57 C/5 ; 13° 58' : 76° 25'), manganese-ore. L. L. F., **M**, XXXVII, 1125.
- Nirgundi hill, *Bijapur* (47 P/15 ; 16° 21' : 75° 55'), L. Kaludgi beds, section. R. B. F., **M**, XII, 82 (fig.)
- Niri Sumdo, *Ladakh* (52 G/2 ; 33° 35' : 77° 13'), Liassic fossils. F. S., **M**, V, 346=Nio Sumdo.
- Nirsha, *Manbhum* (73 I/9 ; 23° 47' : 86° 42'), Barakar plants. O. F., **R**, X, 74.
- Nirth, *Bashahr* (53 E/11 ; 31° 22' : 77° 32' 30"), gneiss and slates. C. A. M., **R**, X, 214=Nirat.
- Nishapur, *Persia* (22 L/16 ; 36° 12' : 58° 50'), turquoise mines. A. H. Schindler, **R**, XVII, 132.
- Nithahar, *Bharatpur* (54 F/1 ; 26° 58' : 77° 2'), Alwar quartzites, sub-stage. C. A. H., **R**, X, 87 ; copper-ore. **R**, XIII, 247 ; A. M. H., **R**, XLVIII, 199=Neethehar.
- Niti Pass, *Garhwal* (53 N/13 ; 30° 58' : 79° 52'), Muth quartzite. C. L. G., **M**, XXIII, 62 ; Haimanta-Trias, section, 105 (fig.) ; Permian-Lias, section, 123.
- Niwar, *Jubbulpore* (64 A/6 ; 23° 43' : 80° 22'), bauxite. C. S. F., **M**, XLIX, 116, 118.
- Niza, *Persia* (17 P/15 ; 28° 23' : 55° 57'), serpentine, Oman series. G. E. P., **M**, XLVIII, pt. 2, 12, 66.
- Nizamghat, *Mishmi Hills* (82 P/11 ; 28° 16' : 95° 42'), Tipam sandstones. J. M. M., **R**, XXXI, 193 ; alluvial gold, 223.
- Nizampur, *Peshawar* (43 C/1 ; 33° 47' : 72° 1'), sub-recent deposits. C. L. G., **R**, XXV, 99.
- Noa Dehing R., *Lakhimpur* (83 M/14 ; 27° 33' : 96° 0'), gold, platinum and iridosmine. Dalton & Hannay, **M**, I, 91 ; F. R. M., **R**, XV, 53.

- Noakhali, *Bengal* (79 N/1 ; 22° 49' : 91° 6'), earthquake, 1897. R. D. O., **M**, XXIX, 316 ; Srimangal earthquake, 1918. M. S., **M**, XLVI, 29.
- Noamundi, *Singhbhum* (73 F/8 ; 22° 9' : 85° 29'), iron-ore. E. H. P., **R**, LIII, 17 ; **LXII**, 96.
- Noaput, *Jeyppre* (65 J/9 ; 18° 50' : 82° 30' 30"), potstone. T. L. W., **A. R.**, 1900, 168, 175.
- Nobat Dakim, *Aden* (7 C/15 ; 13° 16' 30" : 44° 45' 30"), Jurassic limestone. R. E. L., **R**, XXXVIII, 318.
- Nodiha (Nadiha), *Manbhum* (73 I/14 ; 23° 39' 30" : 86° 47'), coal seam. R. R. S., **M**, XLI, 47 = Nudia.
- Noganwa, *Alwar* (54 A/14 ; 27° 39' 30" : 76° 52'), Alwar quartzite. A. M. H., **M**, XLV, 34 ; Ajabgarh series, 80.
- Nogli R., *Bashahr* (53 E/15 ; 31° 24' : 77° 48'), Krol quartzite and trap. C. A. M., **R**, XIX, 67.
- Noh, *Aligarh* (54 F/9 ; 27° 51' : 77° 39'), geodetic station. R. D. O., **M**, XLII, 218.
- Nohan, *Simla* (53 F/5 ; 30° 57' : 77° 16'), Jaunsar series. G. E. P., **M**, LIII, 84 ; banded slates, Simla series, 119.
- Nöjinkangsang, *Tibet* (77 L/1 ; 28° 57' : 90° 12'), granite. H. H. H., **M**, XXXVI, 126, 160.
- Nojli, *Saharanpur* (53 G/9 ; 29° 54' : 77° 40' 30"), geodetic station. R. D. O., **M**, XLII, 240.
- Nokra, *Jaisalmer* (45 A/10 ; 27° 38' : 72° 39'), boulder beds. R. D. O., **R**, XIX, 123.
- Nomal, *Gilgit* (42 L/8 ; 36° 5' : 74° 17'), metamorphic rocks. H. H. H., **R**, XLV, 297.
- Nongjuri, *Khasi Hills* (78 O/16 ; 25° 11' : 91° 47' 30"), monoclinial flexure. P. N. B., **A. R.**, 1901, 21.
- Nongkdait, *Khasi Hills* (78 O/7 ; 25° 16' : 91° 19' 30"), Cretaceous sandstone. R. W. P., **R**, LV, 161 ; nummulitic limestone 162.
- Nongkla, *Khasi Hills* (78 O/8 ; 25° 13' : 91° 28'), basal limestone, Cretaceous. R. W. P., **R**, LV, 161.
- Nongkredem (Langkyrdem), *Khasi Hills* (78 O/15 ; 25° 21' : 91° 54'), nummulitic limestone. P. N. B., **A. R.**, 1901, 21 = Nonkradem.
- Nongkrem, *Khasi Hills* (78 O/15 ; 25° 29' 30" : 91° 53'), earthquake, 1897, after-shocks. R. D. O., **M**, XXX, 59 = Nonkrim.
- Nongkulang hill, *Khasi Hills* (78 O/3 ; 25° 16' : 91° 4'), nummulitic limestone. T. D. L., **R**, XVII, 144 ; Tertiary beds, fossils. E. V., **R**, LI, 332.
- Nongkynbuh, *Khasi Hills* (78 O/7 ; 25° 17' : 91° 24' 30"), amphibolite. R. W. P., **R**, LV, 153.
- Nonglwai, *Khasi Hills* (78 O/7 ; 25° 27' 30" : 91° 19' 30"), granite. R. W. P., **R**, LV, 155.
- Nongmanat, *Khasi Hills* (78 O/7 ; 25° 18' : 91° 28'), muscovite gneiss. R. W. P., **R**, LV, 153.
- Nongmawait, *Khasi Hills* (78 O/2 ; 25° 39' 30" : 91° 4'), corundum. F. E. Jackson, **R**, XXXVI, 324 ; sillimanite. E. H. P., **R**, LV, 27 ; J. A. D., **M**, LII, 167.
- Nongmawmairang, *Khasi Hills* (78 O/7 ; 25° 21' : 91° 25' 30"), Cretaceous beds, junction with gneiss. R. W. P., **R**, LV, 159.



- Nongpyon, *N. Shan States* (93 F/13 ; 22° 48' : 97° 47'), L. Devonian fossils. F. C. R., **R**, LXII, 252.
- Nongrynieu, *Khasi Hills* (78 O/2 ; 25° 44' : 91° 4' 30"), corundum. F. R. M., **R**, XII, 172 ; epidiorite and hornblende-schist. J. A. D., **M**, LII, 168.
- Nongsewik, *S. Shan States* (93 H/9 ; 20° 47' : 97° 44'), limestone. C. S. M., **A. R.**, 1900, 140.
- Nongspung, *Khasi Hills* (78 O/11 ; 25° 27' : 91° 36'), iron smelting. R. W. P., **R**, LV, 167.
- Nongstoin, *Khasi Hills* (78 O/6 ; 25° 30' 30" : 91° 16'), earthquake, 1897, projection of stones. R. D. O., **M**, XXIX, 130.
- Nongtalang, *Jaintia Hills* (83 C/4 ; 25° 12' : 92° 4'), nummulitic limestone. P. N. B., **A. R.**, 1901, 21, 1902, 26.
- Nonklir, *Jaintia Hills* (83 C/11 ; 25° 21' : 92° 33'), nummulitic limestone. T. D. L., **R**, XVI, 201.
- Nonkradem, *Khasi Hills* (78 O/15 ; 25° 21' : 91° 54'), outlier, Tertiary sandstone. T. O., **M**, I, 129 (fig.)—Nongkredem.
- Nonkrim, *Khasi Hills* (78 O/15 ; 25° 29' 30" : 91° 53'), granite. T. O., **M**, I, 152 (fig.)—Nongkrem.
- Nonokocha, *Ranchi* 73 (F/9 ; 22° 52' 30" : 85° 34'), phyllite, Iron Ore series. J. A. D., **M**, LIV, 50.
- Nonooodeh, *Manbhum* (73 I/6 ; 23° 41' : 86° 26'), Barakar beds. T. W. H. H., **M**, V, 252.
- Nonsar, *Jubbulpore* (55 M/16 ; 23° 14' : 79° 48'), manganiferous hematite. P. N. B., **R**, XXI, 75.
- Noon R., *Dehra Dun* (53 J/3 ; 30° 24' : 78° 1'), Nahan-Siwalik boundary. H. B. M., **M**, III, pt. 2, 127 ; salt works, 177.
- Noondatur (Nundhatar), *Cutch* (41 E/4 ; 23° 9' : 69° 5'), *Nummulites douvillei*. E. V., **R**, XXXIV, 85.
- Notu Buru, *Singhbhum*, iron-ore, *see* Pansira Buru.
- Nourabad, *Gwalior* (54 J/3 ; 26° 24' : 78° 4'), Vindhyan sandstone. H. B. M., **M**, II, 64.
- Nowadeeh, *Manbhum* (73 I/1 ; 23° 48' 30" : 86° 13'), annelid tracks in Talchir beds. T. W. H. H., **M**, V, 243.
- Nowadih, *Palamanu* (73 A/1 ; 23° 50' : 84° 1'), Talchir plants. O. F., **R**, XVI, 177 ; iron-ore. V. B., **M**, XV, 98.
- Nowagarh, *Raipur* (64 L/3 ; 20° 29' : 82° 11'), porphyritic granite. V. B., **R**, X, 185.
- Nowahatta (Nougata), *Nimar* (55 B/12 ; 22° 15' : 76° 37' 30"), hornstone breccia, ? Bijawar series. W. T. B., **M**, VI, 249.
- Nowbug, *Kashmir* (43 O/6 ; 33° 39' : 75° 22'), Triassic limestone. R. L., **R**, XI, 50.
- Nowgong, *Assam* (83 B/11 ; 26° 21' : 92° 41'), Cachar earthquake, 1869. T. O., **M**, XIX, 29 ; earthquake, 1897, sand-vents. R. D. O., **M**, XXIX, 103, 109.
- Nowrangapur, *Jeyapore* (65 I/12 ; 19° 14' : 82° 33'), Cuddapah outlier. T. L. W., **A. R.**, 1901, 14.
- Nowshera, *Kashmir* (43 J/4 ; 34° 9' 30" : 74° 14'), 'erratics'. A. B. W., **R**, X, 126=Naushara.

- Nowshera, *Peshawar* (38 N/16; 34° 0' : 71° 59'), 'perched' blocks. W. T., **R**, XIII, 233.
- Nowshera, *Shahpur* (43 D/2; 32° 34' : 72° 9'), sub-recent pebble beds. A. B. W., **R**, X, 123.
- Noyanpully (Nayanipalle), *Kurnool* (57 I/4; 15° 5' : 78° 4' 30"), Paniam quartzite plateaus. W. K., **M**, VIII, 86 (Pl. iv, fig. 2).
- Noydopulla (Nadimpalle), *Kurnool* (57 M/2; 15° 36' : 79° 8' 30"), rippling in Cumbum quartzites. W. K., **M**, VIII, 240.
- N'Saungka-chaung, *Myitkyina* (92 C/11; 25° 19' : 96° 44' 30"), Miocene beds, coal seams. F. N., **R**, XXVI, 28=Saungka-chaung and Sawngching Hka.
- Nsengahawng, *Myitkyina* (92 C/6; 25° 40' : 96° 26'), olivine-basalt. E. H. P., **R**, LXIII, 102.
- Nsop, *Myitkyina* (92 G/5; 25° 51' : 97° 30'), graphitic schists. M. S., **R**, L, 246.
- Nuaon, *Shahabad* (72 C/2; 25° 35' : 84° 14' 30"), geodetic station. R. D. O., **M**, XLII, 220.
- Nuchibad (Luhchibad), *Manbhum* (73 I/14; 23° 42' 30" : 86° 46'), colliery. W. T. B., **M**, III, 158; hot spring. T. O., **M**, XIX, 140.
- Nuddea (Nabadwip), *Bengal* (79 A/7; 23° 24' : 88° 22'), Cachar Earthquake, 1860. T. O., **M**, XIX, 32=Nadia.
- Nudia (Nadiha), *Manbhum* (73 I/14; 23° 39' 30" : 86° 47'), coal seam. W. T. B., **M**, III, 118=Nodiha.
- Nughalli, *Hassan* (57 C/8; 13° 1' : 76° 29'), Dharwar schists. R. B. F., **R**, XXII, 19.
- Nugree, *Hazara* (43 V/5; 33° 56' 30" : 73° 19'), Kuldana beds, gypsum. C. S. M., **M**, XXVI, 205.
- Nugukkee, *Hazara* (43 F/4; 34° 7' : 73° 14'), Nummulitic series, *Montlivaltia*. C. S. M., **M**, XXVI, 113.
- Nuh, *Gurgaon* (53 H/4; 28° 6' : 77° 0' 30"), brine wells. A. M. H., **M**, XLV, 128.
- Nullia, *Cutch* (41 A/15; 23° 15' 30" : 68° 50'), fossil wood in U. Tertiary sands. A. B. W., **M**, IX, 272=Naliya.
- Nulungi (Lulung), *Mayurbhanj* (73 K/9; 21° 56' 30" : 86° 33'), potstone. P. N. B., **R**, XXXI, 173.
- Nummayahn, *Prone* (85 N/1; 18° 46' : 95° 13'), brine spring. W. T., **R**, VI, 68= Namayan.
- Nunbhlil R., *Santal Parganas* (72 P/4; 24° 10' : 87° 7'), hot spring. T. O., **M**, XIX, 140.
- Nundaloor (Nandalur), *Cuddapah* (57 N/3; 14° 16' : 79° 7'), Pullampet shales and limestone. W. K., **M**, VIII, 203.
- Nundanawanum, *Nellore* (57 M/7; 15° 28' : 79° 16' 30"), stone implements. R. B. F., **M**, X, 54.
- Nundial (Nandyal), *Kurnool* (57 I/7; 15° 29' 30" : 78° 29'), shales, Kundair stage. W. K., **M**, VIII, 42.
- Nundialumpett (Nandyalampeta), *Cuddapah* (57 J/14; 14° 43' : 78° 48' 30"), Nallamalai beds. W. K., **M**, VIII, 234; lead-ore, 235.
- Nundrukki, *Kohat* (38 O/11; 33° 15' : 71° 33'), rock salt. H. W., **M**, XI, 321; bituminous gypsum. E. H. P., **M**, XL, 421=Nandrakka.
- Nundycotecoar (Nandikotkur), *Kurnool* (57 I/5; 15° 51' 30" : 78° 16'), lydian stone, Kundair stage. W. K., **M**, VIII, 48.

- Nundycunnama pass, *Kurnool* (57 I/11 ; 15° 24' : 78° 44'), Nallamalai slates. W. K., **M**, VIII, 139.
- Nungpoh, *Khasi Hills* (78 O/13 ; 25° 54' : 91° 53'), Cachar earthquake, 1869. T. O., **M**, XIX, 19=Nangpoh.
- Nuni, *Burdwan* (73 I/14 ; 23° 44' 30" : 86° 53'), coal seam. R. R. S., **M**, XLI, 47.
- Nunia (Nonia) R., *Burdwan* (73 M/2 ; 23° 40' : 87° 1'), Barakar stage, section. W. T. B., **M**, III, 53 ; Raniganj stage, 103.
- Nunjal (Majal), *Cutch* (41 E/4 ; 23° 5' : 69° 5'), Gaj series, *Pecten*. E. V., **M**, I, 432.
- Nunnao hill, *Cutch* (41 E/8 ; 23° 12' : 69° 21'), trap flows. A. B. W., **M**, IX, 195.
- Nunnay (Nannai), *Trichinopoly* (58 M/3 ; 11° 19' 30" : 79° 3' 30"), trap dykes. W. K., **M**, IV, 329.
- Nupuchöndzö, *Tibet* (77 G/8 ; 29° 7' : 89° 16'), serpentinite. H. H. H., **M**, XXXVI, 159, 179.
- Nuqsan pass, *Chitral* (37 P/11 ; 36° 22' 30" : 71° 34'), Belemnite beds. E. H. P., **R**, LV, 39.
- Nurat, *Jhansi* (54 L/11 ; 24° 23' : 78° 34'), Vinodhyan-granite boundary. H. B. M., **M**, II, 60.
- Nurgaon, *Jubbulpore* (64 A/3 ; 23° 18' 30" : 80° 3'), pyrolusite. P. N. B., **R**, XXI, 86.
- Nurgo, *Hazaribagh* (72 L/4 ; 24° 10' 30" : 86° 5' 30"), tin-ore. F. R. M., **R**, VII, 35=Nurunga.
- Nuri, *Hazara* (43 F/10 ; 34° 39' 30" : 73° 32'), Panjal traps. D. N. W., **R**, LXV, 210.
- Nuriaree (Naredi), *Cutch* (41 A/10 ; 23° 40' : 68° 40' 30"), Eocene shales, section. A. B. W., **M**, IX, 245.
- Nurichham, *Punch* (43 K/6 ; 33° 36' : 74° 25'), waterfall. D. N. W., **M**, LI, 206.
- Nurla, *Ladakh* (52 B/15 ; 34° 19' : 76° 59'), syenite. R. D. O., **R**, XXI, 154.
- Nurni, *Tehri* (53 J/11 ; 30° 22' : 78° 36'), quartzites and limestone. C. S. M., **R**, XX, 32.
- Nurpur (Narpura), *Dholpur* (54 F/14 ; 26° 42' : 77° 51'), sandstone quarries. H. H. H., **R**, XLIV, 17.
- Nurpur, *Jhelum* (43 D/10 ; 32° 40' : 72° 35'), geology of plateau. A. B. W., **M**, XIV, 184 (Pls. xix, xx) ; L. L. F., **R**, LXV, 118 ; potash salts. W. K. C., **R**, XLIV, 247 (fig.) ; M. S., **R**, L, 40, 53 (Pls. iv, v).
- Nurpur, *Kangra* (43 P/15 ; 32° 18' : 75° 53'), antiform in Siwaliks. H. B. M., **M**, III, pt. 2, 144 ; earthquake, 1905. C. S. M., **M**, XXXVIII, 9 ; Siwalik fossils. G. E. P., **R**, XLIII, 268.
- Nurpur pass, *Kashmir* (43 K/5 ; 33° 48' : 74° 27'), dolerite bosses and sills. D. N. W., **M**, LI, 220, 309.
- Nurra, Nurrha (Nara), *Cutch* (41 E/2 ; 23° 39' : 69° 7'), Jurassic plant beds. A. B. W., **M**, IX, 215 (fig.) ; flooded area, Cutch earthquake, 1819. R. D. O., **M**, XLVI, 85, 101.
- Nurree, *Kohat* (38 O/4 ; 33° 11' : 71° 10'), Gypseous series and Tertiary beds, section. A. B. W., **M**, XI, 271 (Pl. ix, fig. 47) ; salt quarries. H. W., **M**, XI, 300, 310.
- Nursingphoar, *Shahpur* (43 D/6 ; 32° 34' : 72° 25'), Carboniferous-Eocene, sections. A. B. W., **M**, XIV, 204-208 (fig.).

- Nursingurh, *Damoh* (55 M/5;  $24^{\circ} 0' : 79^{\circ} 23'$ ), Phander limestone. H. B. M., **M**, II, 34.
- Nursumuda (Narasamuda), *Burduwan* (73 1/14;  $23^{\circ} 41' 30'' : 86^{\circ} 56'$ ), coal seam. R. R. S., **M**, XLI, 45.
- Nurunga, *Hazaribagh* (72 L/4;  $24^{\circ} 10' 30'' : 86^{\circ} 5' 30''$ ), cassiterite-granulite. L. L. F., **R**, XXXIII, 236; LIII, 304; H. H. H., **R**, XLII, 79=Nurgo.
- Nurwur, *Gwalior* (54 (1/14;  $25^{\circ} 38' : 77^{\circ} 54'$ ), Vindhyan-granite boundary. H. B. M., **M**, II, 61.
- Nushki, *Chagai* (34 K/2;  $29^{\circ} 34' : 66^{\circ} 2'$ ), Flysch series-Siwalik, section. E. V., **M**, XXXI, 220 (Pl. viii, fig. 3).
- Nuwaidrat, *Persian Gulf* (11 J/12;  $26^{\circ} 9' : 50^{\circ} 37'$ ), raised beach. G. E. P., **M**, XXXIV, pt. 4, 122.
- Nuzed (Nuzvid), *Kistna* (65 D/13;  $16^{\circ} 48' : 80^{\circ} 51'$ ), Kamthi sandstones. W. T. B., **R**, IV, 51; V, 26.
- Nwalabo, *Tavoy* (95 J/8;  $14^{\circ} 0' 30'' : 98^{\circ} 26'$ ), wolfram veins. J. C. B., **M**, XLIV, 304.
- Nweyon, *Mandulay* (93 B/2;  $22^{\circ} 40' : 96^{\circ} 1'$ ), mica. L. L. F., **R**, LIV, 26.
- Nyang Chu, *Tibet* (77 G/S. W.;  $29^{\circ} 0' : 89^{\circ} 30'$ ), Jurassic beds. H. H. H., **R**, XXXII, 166; course of river. **M**, XXXVI, 130; basic intrusions, 178; reputed coal, 185.
- Nyatand, *Hazaribagh* (72 H/10;  $24^{\circ} 30' : 85^{\circ} 43'$ ), lead-ore. L. L. F., **R**, LIII, 282.
- Nyaumbaw, Nyaungbaw, *Mandalay* (93 C/5;  $21^{\circ} 51' : 96^{\circ} 19'$ ), Ordovician fossils. P. N. D., **A**, **R**, 1900, 104; T. D. L., **M**, XXXIX, pt. 2, 119.
- Nyaungbinhle, *L. Chindwin* (84 J/11;  $22^{\circ} 19' 30'' : 94^{\circ} 39'$ ), Pegu anticline. E. H. P., **M**, XL, 141; alluvial gold. **R**, LXI, 56; oil seepage, 66; sulphurous spring, 72.
- Nyaungbintha, *Thayetmyo* (85 M/2;  $19^{\circ} 36' : 95^{\circ} 11'$ ), *Dendrophyllia* bed. E. V., **R**, LI, 235; Tertiary gastropoda. LIII, 130.
- Nyaungbinthe, *L. Chindwin* (84 N/4;  $22^{\circ} 8' : 95^{\circ} 15'$ ), Pegu-Irrawadian boundary. E. H. P., **R**, LXII, 101.
- Nyaungbinzauk, *Pakokku* (84 K/10;  $21^{\circ} 41' : 94^{\circ} 42'$ ), *Carcharodon*. M. S., **R**, XXXVIII, 294 (Pl. xxv, fig. 12).
- Nyaunggaing, *L. Chindwin* (84 J/16;  $22^{\circ} 12' : 94^{\circ} 47'$ ), vertebrate fossils. E. H. P., **R**, LXI, 110.
- Nyaunggyat, *S. Shan States* (93 C/8;  $21^{\circ} 10' : 96^{\circ} 18'$ ), dam-site. E. H. P., **R**, LVIII, 26.
- Nyaungghla, *Magwe* (84 L/15;  $20^{\circ} 25' 30'' : 94^{\circ} 53'$ ), boulders in Plateau gravel. E. H. P., **M**, XL, 33, 49; Burma earthquake, 1912. J. C. B., **M**, XLII, 65.
- Nyaunghmaw, *Magwe* (85 M/9;  $19^{\circ} 49' : 95^{\circ} 43'$ ), Burma earthquake, 1912. J. C. B., **M**, XLII, 121.
- Nyaungkaya, *S. Shan States* (93 D/9;  $20^{\circ} 54' : 96^{\circ} 44'$ ), *Lyttonia*. E. H. P., **R**, LXIII, 23, 89.
- Nyaungnigyn, *Myingyan* (84 P/1;  $20^{\circ} 52' : 95^{\circ} 0' 30''$ ), limonite, assay. G. S. L., **R**, XXX, 256; fault in Miocene beds. E. H. P., **R**, XXXIV, 263; Pegu outlier. **M**, XL, 125, 130=Nyauni yin.
- Nyaungyin, *Herzada* (85 N/4;  $18^{\circ} 1' : 95^{\circ} 11' 30''$ ), mud vent. E. H. P., **M**, XL, 178,

- Nyaunigyin, *Myingyan* (84 P/1; 20° 52' : 95° 0' 30"), iron-smelting. G. E. G., **M**, XXVIII, 70=Nyaungnigyin.
- Nyotang, *Tibet* (77 O/2; 29° 32' : 91° 2'), serpentine. H. H. H., **M**, XXXVI, 179.
- Nyiru Chu, *Tibet* (77 H/14; 28° 41' : 89° 51'), Jurassic beds. H. H. H., **M**, XXXVI, 160.
- Nykal, *Gulbarga* (56 H/2; 16° 43' : 77° 4'), quasi-brecciated quartz reef. R. B. F., **M**, XII, 67.
- Nyoung-don, *Ma-Ubin* (85 O/12; 17° 3' : 95° 38'), bifurcation of Irrawaddy. W. T., **R**, III, 22=Niungdon and Yandoon.
- Obah, *Surat* (46 C/15; 21° 27' 30" : 72° 51' 30"), Eocene beds. A. B. W., **R**, I, 30.
- Oblagundi gorge, *Sandur* (57 A/12; 15° 3' 30" : 76° 31'), Dharwar rocks, section. R. B. F., **R**, XIX, 104=Ubbalagandi gorge.
- Obo, *L. Chindwin* (84 J/16; 22° 10' : 94° 55'), basaltic tuffs. E. H. P., **R**, LXI, 110.
- Od, *Idar* (46 E/6; 23° 44' : 73° 22'), Delhi quartzite and Phyllite series. C. S. M., **M**, XLIV, 95, 112.
- Odapei (Odappai), *Chingleput* (57 O/16; 13° 14' : 79° 54'), U. Gondwana beds. R. B. F., **M**, X, 91.
- Odhania, *Jodhpur* (40 N/9; 26° 58' : 71° 43'), sandstone and conglomerate, ? Jurassic. W. T. B., **R**, X, 14.
- Odiun (Odiyam), *Trichinopoly* (58 I/16; 11° 13' : 78° 59' 30"), Utatur fossils. H. F. B., **M**, IV, 91.
- Ogili (Vogli), *Nellore* (57 N/16; 14° 0' : 79° 54'), granite veins in gneiss. W. K., **M**, XVI, 164.
- Ohn-nge Chaung, *L. Chindwin* (84 J/11; 22° 29' : 94° 38'), mud vents. E. H. P., **M**, XI, 144.
- Ohun R., *Banda* (63 G/3; 25° 10' : 81° 5'), Semri series. H. B. M., **M**, II, 23.
- Oi-Law, *N. Shan States* (93 E/7; 23° 28' : 97° 26' 30'), granite boundary. E. H. P., **R**, LXIII, 92.
- Oira R., *Sambalpur* (64 O/9; 21° 49' : 83° 40'), borings for coal. W. K., **R**, XIX, 215; **XX**, 200; R. R. S., **M**, XLI, 86.
- Okaing, *L. Chindwin* (84 N/3; 22° 24' : 95° 3'), explosion crater. E. H. P., **R**, LXI, 108.
- Okampad (Ukam), *Mayurbhanj* (73 J/4; 22° 9' : 86° 12' 30"), iron-ore. T. H. H., **R**, XXXIX, 112; L. L. F., **R**, LIII, 277.
- Okaray, *Trichinopoly* (58 I/12; 11° 13' : 78° 32'), cotton soil. W. K., **M**, IV, 353.
- Okkan, *L. Chindwin* (84 J/16; 22° 10' 30" : 94° 56' 30"), granite. E. H. P., **R**, LXI, 107.
- Okpo, *Thaton* (94 H/5; 16° 50' : 97° 17'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 236.
- Okpotaung, *L. Chindwin* (84 N/3; 22° 29' : 95° 12' 30"), basalt quarries. E. H. P., **R**, LXII, 32.
- Olapaudy (Olaiapaddi), *Trichinopoly* (58 M/3; 11° 19' 30" : 79° 5' 30"), Utatur limestone and shales. H. F. B., **M**, IV, 94 (fig.); Ariyalur fossils, 137; copper-ore, 216.

- Olatura, *Kalahandi* (64 P/11;  $20^{\circ} 20' : 83^{\circ} 32' 30''$ ), iron-ore and cobaltiferous wad. T. L. W., **M**, XXXIII, pt. 3, 19, 20; L. L. F., **M**, XXXVII, 616; **R**, LIII, 281.
- Oherpat, *Palamanu* (73 A/9;  $23^{\circ} 50' : 84^{\circ} 44'$ ), crystalline limestone. V. B., **M**, XV, 32.
- Ollavaconda (Alavakonda), *Kurnool* (57 I/4;  $15^{\circ} 8' : 78^{\circ} 14'$ ), Jammalamadugu beds, plateau scarp. W. K., **M**, VIII, 85 (Pl. iv, fig. 1).
- Otong hill, *Sirmur* (53 F/6;  $30^{\circ} 43' : 77^{\circ} 28'$ ), Jutogh and Chail beds. H. B. M., **M**, III, pt. 2, 44; G. E. P., **M**, LIII, 34.
- Olundiapatti, *S. Arcot* (57 P/16;  $12^{\circ} 3' : 79^{\circ} 46' 30''$ ), Cretaceous beds. H. W., **R**, XXVIII, 16.
- Om Gheir, *Iraq* (3 N/15;  $30^{\circ} 29' : 47^{\circ} 49'$ ), petroleum. G. E. P., **M**, XXXIV, pt. 4, 148.
- Omar Khel, *D. I. Khan* (38 P/7;  $32^{\circ} 25' : 71^{\circ} 17'$ ), Carboniferous-Permian beds, section. A. B. W., **M**, XVII, 273; fossils, 295=Umar Khel.
- Omarpani (Umarpani), *Narsinghpur* (55 I/16;  $23^{\circ} 9' : 78^{\circ} 51'$ ), iron-ore. L. L. F., **R**, L, 285.
- Ombo, *Sibi* (34 N/12;  $30^{\circ} 11' : 67^{\circ} 40''$ ), Nummulitic limestone. C. L. G., **R**, XXVI, 132.
- Onda, *Singhbhum* (73 F/2;  $22^{\circ} 32' : 85^{\circ} 6'$ ), shearing in epidiorite. J. A. D., **M**, LIV, 90.
- Omeri, *Maihar* (63 D/15;  $24^{\circ} 15' 30'' : 80^{\circ} 51'$ ), Ganurgarh shales, section. F. R. M., **M**, VII, 83.
- Omeria, *Narsinghpur* (55 M/4;  $23^{\circ} 1' : 79^{\circ} 8'$ ), ossiferous beds, section. W. T., **M**, II, 290.
- Omlao, R., *Dehra Dun* (53 F/14;  $30^{\circ} 32' : 77^{\circ} 53'$ ), Himalayan series. H. B. M., **M**, III, pt. 2, 66.
- Ommacalatur (Ammakalattur), *S. Arcot* (58 I/14;  $11^{\circ} 36' : 78^{\circ} 58'$ ), quartzofelspathic gneiss. W. K., **M**, IV, 308.
- Onal (Andal), *Burdwan* (73 M/2;  $23^{\circ} 33' 30'' : 87^{\circ} 11'$ ), coal seams. R. R. S., **M**, XLI, 46.
- Ondaw, *Pakokku* (84 K/11;  $21^{\circ} 26' : 94^{\circ} 31'$ ), vertebrate fossils. E. H. P., **R**, LV, 35.
- Ondaw, *Sagaing* (84 N/16;  $22^{\circ} 0' 30'' : 95^{\circ} 50'$ ), brine wells. E. H. P., **R**, LXI, 72; U. Pegu beds, section. LXII, 121.
- Ondwe, *Magwe* (84 P/4;  $20^{\circ} 7' : 95^{\circ} 8' 30''$ ), inlier, Pegu series. E. H. P., **R**, XXXVIII, 152 (Pls. iv, v); **M**, XL, 67, 138.
- Ondwe, *Pakokku* (84 K/2;  $21^{\circ} 44' 30'' : 94^{\circ} 8'$ ), M. Siwalik fossils. E. H. P., **R**, LVI, 42.
- Ongabira hill, *Singhbhum* (73 F/10;  $22^{\circ} 34' 30'' : 85^{\circ} 43'$ ), trap rock. V. B., **M**, XVIII, 137; field relations and petrology. J. A. D., **M**, LIV, 136 (fig.).
- Ongbingwin, *Tavoy* (95 F/14;  $14^{\circ} 37' : 98^{\circ} 0'$ ), cassiterite veins. T. H. H., **R**, XXXVIII, 57.
- Ongghkok, *N. Shan States* (93 F/7;  $22^{\circ} 29' 30'' : 97^{\circ} 16'$ ), fault-scarp. T. D. L., **M**, XXXIX, pt. 2, 363.
- Ong-kong (Ang-kong), *Yunnan* (102 A/6;  $23^{\circ} 35' : 100^{\circ} 28' 30''$ ), Permo-Triassic beds. J. C. B., **R**, LIV, 309.

- Ongole, *Guntur* (66 A/2; 15° 30' 30" : 80° 3'), prevalence of earthquakes. R. B. F., **M**, XVI, 5, 37; iron-ore beds, 19, 103; Rajmahal beds, 58; lateritic gravels, 89; earthquake, 1905. C. S. M., **R**, XXXII, 280; **M**, XXXVIII, 351; watersupply. H. H. H., **R**, XLI, 77.
- Onhne (Onneywama), *Pegu* (94 C/12; 17° 6' : 96° 34' 30"), Pegu earthquake, 1930. J. C. B., **R**, LXV, 229.
- Oniar, *Dehra Dun* (53 F/10; 30° 44' : 77° 44' 30"), pseudo-organic structure in limestone. H. B. M., **M**, III, pt. 2, 56.
- Ontali, *Vizagapatam* (65 J/12; 18° 0' 30" : 82° 37'), laterite. T. H. H., **R**, XXXII, 143; khondalite. T. L. W., **R**, XXXVI, 3.
- Onthea, *Santhal Parganas* (72 O/12; 25° 8' : 87° 44'), Rajmahal plants. O. F., **R**, IX, 39.
- Onzon, *Ruby Mines* (93 B/1; 22° 49' : 96° 5' 30"), graphite. L. L. F., **R**, LIV, 22.
- Oogalore (Ukkalur), *Trichinopoly* (58 I/16; 11° 5' 30" : 78° 52' 30"), Utatur plant beds. H. F. B., **M**, IV, 41.
- Oogulree (Ugardi), *Cutch* (41 E/3; 23° 28' : 69° 8'), marine shells in Upper Jurassic beds. A. B. W., **M**, IX, 210.
- Ool R., *Mandi* (53 A/13; 31° 55' : 76° 55'), mica-schists. H. B. M., **M**, III, pt. 2, 59 = Uhl R.
- Oomerghor, *Ohhindwara* (55 J/12; 22° 8' : 78° 34'), garnetiferous schist. E. J. J., **M**, XXIV, 14.
- Oomia (Umia), *Cutch* (41 A/14; 23° 39' : 68° 59' 30"), Jurassic beds, fossils. A. B. W., **M**, IX, 224.
- Oomirsir, *Cutch* (41 A/14; 23° 44' 30" : 68° 49'), gypsum. A. B. W., **M**, IX, 90.
- Oomrawuttee, *Berar* (55 H/9; 20° 56' : 77° 45'), brine wells. A. B. W., **R**, II, 3; W. T. B., **M**, VI, 380; laterite, 286 = Amraoti.
- Onkar Mandatta, *Nimar* (55 B/4; 22° 15' : 76° 9'), supposed occurrence of ammonites. W. T. B., **M**, VI, 169 = Mandata.
- Oopalpad (Uppalapadi), *Kurnool* (57 I/4; 15° 10' : 78° 3'), plateau quartzites. Paniam series. W. K., **M**, VIII, 55 (fig.), 59, 60 (fig. & Pl. ii, fig. 1).
- Oorchintala (Urachintala), *Anantapur* (57 J/1; 14° 56' 30" : 78° 5' 30"), quartzite, Jammalamadugu series. W. K., **M**, VIII, 75.
- Ooree R., *Amjhera* (46 J/15; 22° 23' : 74° 54'), Cretaceous and Bijawar beds. W. T. B., **M**, VI, 299.
- Ooreemaree, *Hazaribagh* (73 E/6; 23° 42' : 85° 18'), mica-peridotite intrusions. A. J., **M**, LII, 120.
- Oorlah, *Hazaribagh* (73 E/6; 23° 43' : 85° 29' 30"), pseudomorphic quartz, fault-rock. V. B., **M**, VI, 128.
- Ooroob, *Hazaribagh* (73 E/1; 23° 54' : 85° 11'), coal seam. A. J., **M**, LII, 28 (fig.); Ironstone shales, 125 (Pl. iv.).
- Ooskir, Ooskur (Usked), *Surat* (46 G/3; 21° 20' : 73° 6'), Deccan trap. A. B. W., **R**, I, 31; overlap of trap by Eocene beds. W. T. B., **M**, VI, 224, 354.
- Oostapully (Ustapalle), *Warangal* (65 D/2; 16° 42' : 80° 9'), Kurnool series, section. R. B. F., **M**, VIII, 298 (Pl. viii, fig. 1).
- Ootacamund, *Nilgiri* (58 A/11; 11° 25' : 76° 43'), kaolin. H. F. B., **M**, I, 236, ochre, 237; primary breccia, charnockite series. T. H. H., **M**, XXVIII, 189, 219 (fig.).

- Ootacoil, *Trichinopoly* (58 M/4 ; 11° 11' 30" : 79° 6' 30"), Ariyalur fossils. H. F. B., **M**, IV, 135=Ottakovil.
- Ootatoor, *Trichinopoly* (58 I/16 ; 11° 4' : 78° 51'), Cretaceous beds. H. F. B., **M**, IV, 83 (Pl. i); gypsum, 214; Rajmahal beds. R. B. F., **R**, XI, 248; flora, 258=Utatur.
- Ooti, *Rupshu* (52 L/5 ; 32° 49' : 78° 29' 30"), biotite-granite. H. H. H., **M**, XXXVI, 95.
- Ootilla (Utila), *Gwalior* (54 J/8 ; 28° 10' : 78° 20'), limestone, Morar series. C. A. H., **R**, III, 37.
- Ora, *Idar* (46 A/13 ; 23° 50' : 72° 52'), micro-granite. C. S. M., **M**, XLIV, 125.
- Ora, *Sirohi* (45 C/16 ; 25° 2' : 72° 48' 30"), chloritised rhyolite. E. H. P., **R**, LX, 113.
- Orarucha Tso, *Ladakh* (52 J/8 ; 34° 14' : 78° 26'), origin of lake. D. G. O., **R**, XLII, 131.
- Ormara, *Las Bela* (35 C/12 ; 25° 12' : 64° 38' 30"), Makran series, mollusca. E. V., **M**, L, 219, 228, 231 &c.=Hormara.
- Oronga hill (Mandua Pat), *Ranchi* (73 A/10 ; 23° 36' : 84° 38'), bauxite. C. S. F., **M**, XLIX, 168.
- Osangi, *Singhbhum* (73 F/2 ; 22° 35' 30" : 85° 9'), agglomerates in epidiorite, Iron Ore series. J. A. D., **M**, LIV, 87.
- Osangtoli, *Ranchi* (73 F/2 ; 22° 40' : 85° 5'), blastoporphyratic hornblende-schist. L. A. N., **R**, LXV, 514.
- Osham hill, *Kathiawar* (41 K/6 ; 21° 38' : 70° 16'), lava flows. F. F., **M**, XXI, 96; lavas, petrography. M. S. K., **R**, LVIII, 380 (figs. & Pls. xv-xx).
- Osia, *Jodhpur* (45 B/14 ; 26° 44' : 72° 55'), organic (?) markings in Vindhyan sandstones. T. D. L., **M**, XXXV, 30; 'chordophyceous' tracks. E. V., **R**, XXXVI, 248 (Pl. xxxiv).
- Ossatary Tank, *Pondicherry* (58 M/9 ; 11° 57' : 79° 45'), U. Ariyalur beds. H. F. B., **M**, IV, 160=Usteri Tank.
- Otar (N.), *Singhbhum* (73 F/10 ; 22° 43' 30" : 85° 37'), inclusion of epidiorite in granite. J. A. D., **M**, LIV, 85.
- Otar (S.), *Singhbhum* (73 F/10 ; 22° 39' : 85° 33'), metamorphism in Iron Ore series. J. A. D., **M**, LIV, 19.
- Oteri, *Puri* (73 H/8 ; 20° 12' : 85° 30'), hot spring. T. O., **M**, XIX, 142=Atari.
- Othri (Utri), *Sirmur* (53 F/10 ; 30° 39' : 77° 40' 30"), Blaini conglomerate. H. B. M., **M**, III, pt. 2, 45.
- Ottakovil, *Trichinopoly* (58 M/4 ; 11° 11' : 79° 7'), Cretaceous fossils. C. A. Matley, **R**, LXI, 340=Ootacoil.
- Ouchterlony valley, *Nilgiri* (58 A/11 ; 11° 28' : 76° 31'), charnockite. H. H. H., **M**, XXXIII, pt. 2, 13.
- Outagaon, *Jeyapore* (65 J/9 ; 18° 52' : 82° 31' 30"), potstone. T. L. W., **A. R.**, 1900, 168, 175.
- Outram I., *Andamans* (86 H/4 ; 12° 14' : 93° 5'), shelly sands, fossiliferous. E. R. G., **R**, LIX, 221.
- Owen, *Punch* (43 G/10 ; 33° 37' : 73° 34' 30"), Himalayan syntaxis. D. N. W., **M**, LI, 359.



- Owir, *Chitral* (37 P/16; 36° 9' : 71° 58'), Reshun conglomerate. H. H. H., R, XLV, 284; U. Devonian fossils. E. H. P., R, LVI, 47.
- Owk (Avaku), *Kurnool* (57 I/4; 15° 12' 30" : 78° 7'), denudation of Paniam beds. W. K., M, VIII, 60 (fig.); Owk shales, 69.
- Pa-aing, *Minbu* (84 L/7; 20° 15' 30" : 94° 20'), steatite. F. R. M., R, XXII, 67 =Hpa-aing.
- Pa-an, *Thaton* (94 H/9; 16° 53' : 97° 38'), Moulmein limestone, fossils. L. L. F., R, LIV, 54.
- Pab range, *Las Bela* (35 J/S. E.; 26° 30' : 66° 46'), U. Cretaceous sandstones. E. V., R, XXXV, 117; XXXVI, 180.
- Pabar R., *Simla* (53 E/16; 31° 6' : 77° 46'), gneiss series. R. D. O., R, XX, 160; XXI, 131.
- Pabbi, *Gujrat* (43 H/9; 32° 48' : 73° 42'), U. Siwalik beds. G. E. P., R, XLIII, 274; antiline. L. L. F., R, LXV, 120=Pubbi.
- Pabhech, *Sirmur* (53 F/5; 30° 58' : 77° 22'), unconformity, Chail-Blaini series. G. E. P., M, LIII, 23.
- Pabia, *Rewah* (63 H/15; 24° 18' : 81° 53'), Vindhyan outlier. R. D. O., M, XXXI, 123.
- Pabna, *Bengal* (78 H/4; 24° 0' : 89° 15'), Srimangal earthquake, 1918. M. S., M, XLVI, 29=Pubna.
- Pabni, Pabuni Chauki, *Las Bela* (35 K/15; 25° 16' 30" : 66° 56'), barytes. G. H. T., R, XXXVIII, 214; Khirthar series, foraminifera. W. L. F. N., R, LIX, 130, 135 &c.
- Pabum, *Hukawng* (92 B/15; 26° 17' : 96° 57' 30"), limestone. L. L. F., R, LXV, 77.
- Pachama, *Balaghat* (64 C/5; 21° 53' : 80° 26'), bauxite. C. S. F., M, XLIX, 131.
- Pachara, *Bhandara* (55 O/15; 21° 26' 30" : 79° 46'), manganese-ore. L. L. F., M, XXXVII, 767.
- Pachaung, *Tavoy* (95 J/2; 14° 30' 30" : 98° 6'), wolfram. A. W. G. B., R, XLIII, 68; quartzite, Mergui series. J. C. B., M, XLIV, 183; wolfram, 271; R, L, 107.
- Pachdar R., *Seoni* (55 O/6; 21° 42' : 79° 29'), alluvial gold. H. H. H., R, XLIV, 20.
- Pachham I., *Cutch* (41 E/13; 23° 50' : 69° 50'), flooded area, earthquake, 1819. R. D. O., M, XLVI, 105=Putehum I.
- Pachikalware, *Coimbatore* (58 E/5; 11° 48' 30" : 77° 17'), green quartzite. H. H. H., M, XXXIII, pt 2, 59; steatite, 60.
- Pachikhani, *Sikkim* (78 A/12; 27° 12' : 88° 36'), copper mine. P. N. B., R, XXIV, 225; T. H. H., R, XXXIX, 239; assays of ore. G. S. L., R, XXIV, 138, 203.
- Pachira, *Surguja* (64 I/16; 23° 12' : 82° 55'), trap dyke. V. B., R, VI, 39.
- Pachkura, *Rewah* (64 I/3; 23° 20' 30" : 82° 1'), coal seam. T. W. H. H., M, XXI, 195, 244.
- Pachmari, *Hoshangabad* (55 J/7; 22° 28' : 78° 26'), Mahadeva sandstones. H. B. M., M, X, 155=Pachmurri.

- Pachpadra, *Jodhpur* (45 C/1 ; 25° 56' : 72° 10'), sand hills. T. D. L., **M**, XXXV, 37 ; brine pits, 41 ; unusual form of selenite. L. L. F., **R**, XXXII, 231 (fig.) = Panchbhadra.
- Pachwara pass, *Santal Parganas* (72 P/6 ; 24° 30' : 87° 25'), coalfield. V. B., **M**, XIII, 187 (Pl. viii) ; R. R. S., **M**, XLI, 38 ; E. H. P., **R**, LXII, 145.
- Padam, *Zangskar* (52 C/15 ; 33° 27' 30" : 76° 53'), Silurian rocks. F. S., **M**, V, 346 ; Muschelkalk ammonite. C. D., **M**, XXXVI, 268.
- Padampur, *Sambalpur* (64 O/10 ; 21° 45' : 83° 34'), Vindhyan limestone with galena. V. B., **R**, X, 178, 192 ; Vindhyan boundary. W. K., **R**, XVIII, 180.
- Padar, *Sirohi* (45 D/7 ; 24° 29' 30" : 72° 28'), microgranite dykes. E. H. P., **R**, LXI, 132.
- Padarwara, *Jubbulpore* (64 A/5 ; 23° 47' 30" : 80° 24'), bauxite. C. S. F., **M**, XLIX, 118.
- Padauk, *Tavoy* (95 K/7 ; 13° 29' ; 98° 29'), wolfram mine. J. C. B., **M**, XLIV, 307.
- Padauk chaung, *Shwebo* (84 N/13 ; 22° 53' : 95° 51'), pyrites. E. H. P., **R**, LXIII, 48.
- Padaukkon, *Magwe* (84 P/7 ; 20° 24' : 95° 16'), Pegu series, fossils. E. H. P., **R**, XXXVI, 291.
- Padaukpin, *N. Shan States* (93 B/12 ; 22° 6' 30" : 96° 38'), M. Devonian coral reef. T. D. L., **M**, XXXIX, pt. 2, 196, 336 ; U. Devonian fauna. F. C. R., **R**, LXII, 229 (Pls. v-viii).
- Padaukpin, *Thayetmyo* (85 M/3 ; 19° 22' : 95° 5' 30"), oil wells. R. R., **R**, XVIII, 149 ; F. N., **M**, XXVII, 75 ; M. S., **R**, XXXVIII, 290 ; E. H. P., **M**, XL, 160 ; G. C., **R**, LIV, 109 = Padoukbeen.
- Padaung, *Minbu* (84 L/12 ; 20° 3' : 94° 36'), Sitsayan shales. G. C., **R**, XLI, 222 ; fossils, 225.
- Padaung, *Prome* (85 N/2 ; 18° 43' : 95° 9'), Miocene fossils. G. C., **R**, XXXVI, 132 ; oil seepage. M. S., **R**, XXXVIII, 269.
- Padaw, *Myitkyina* (92 C/10 ; 25° 38' : 96° 34'), gom stones. E. H. P., **R**, LXIII, 49.
- Padeingon, *Wuntho* (83 P/16 ; 24° 6' : 95° 52'), auriferous pyrites. F. N., **R**, XXVII, 117.
- Pador, *Vizagapatam* (65 J/12 ; 18° 5' : 82° 39' 30"), sapphirine. C. S. M., **R**, XXXI, 38 (Pl. iv) ; T. L. W., **R**, XXXVI, 3 ; H. C., **R**, LXIII, 446.
- Padiyur, *Coimbatore* (58 E/8 ; 11° 3' 30" : 77° 29' 30"), dysluite. R. D. O., **R**, XXX, 129 ; L. L. F., **M**, XXXVII, 37 = Padyur and Pataly.
- Padni, *Hazara* (43 C/13 ; 33° 52' 30" : 72° 55' 30"), *Dicero-cardium*. A. B. W., **R**, XII, 121.
- Pado, *Pegu* (94 B/12 ; 18° 2' : 96° 33'), earthquake, 1930. J. C. B., **R**, LXV, 258, 267.
- Padoukbeen, *Thayetmyo* (85 M/3 ; 19° 22' : 95° 5' 30"), oil wells. W. T., **R**, III, 73 ; **M**, X, 347 = Padaukpin.
- Padri, *Jhelum* (43 H/5 ; 32° 52' 30" : 73° 18'), Siwalik fossils. W. T., **R**, XIV, 93 ; G. E. P., **R**, XL, 64.
- Padri pass, *Chamba* (43 P/13 ; 32° 55' : 75° 48'), Blaani conglomerate and limestone. C. A. M., **R**, XVI, 37.

- Padrog, *Simla* (53 E/8; 31° 5' 30" : 77° 21'), Chail limestone. G. E. P., **M**, LIII, 115.
- Padshahane, *Jhelum* (45 G/4; 33° 0' 30" : 73° 2'), U. Siwalik anticline. D. N. W., **M**, LI, 361.
- Padshapur (Pachhapur), *Belgaum* (47 L/12; 16° 6' : 74° 41' 30"), Dharwar inlier. R. B. F., **R**, XXI, 43.
- Padu, *Sagaing* (84 N/16; 22° 6' : 95° 56'), brine well. E. H. P., **R**, LXI, 72; crystalline limestone, 100.
- Padvania, *Rajpipla* (46 G/2; 21° 41' : 73° 14'), ochre. P. N. B., **R**, XXXVII, 184.
- Padwani, *Chota Udaipur* (46 K/1; 21° 59' 30" : 74° 2'), volcanic focus (?). W. T. B., **M**, VI, 221, 331, 353.
- Padyur, *Coimbatore* (58 E/8; 11° 3' 30" : 77° 29' 30"), aquamarine mines. T. H. H., **R**, XXXII, 107=Padiyur and Pataly.
- Pagad (Phagar), *Sirmur* (53 F/6; 30° 34' : 77° 27' 30"), Blaini beds. H. B. M., **M**, III, pt. 2, 96.
- Pagan, *Myingyan* (84 K/16; 21° 10' : 94° 52'), Pegu anticline. G. E. G., **M**, XXVIII, 66; E. H. P., **M**, XL, 134; coal seam. R. R. S., **M**, XLI, 69.
- Pagansit (Peganzit), *Minbu* (84 L/16; 20° 5' 30" : 94° 53'), *Arca rhombea* bed, Pegu series. E. H. P., **M**, XL, 155.
- Pagara, *Bundi* (45 O/10; 25° 43' 30" : 75° 31' 30"), Gwalior-Aravalli boundary. A. L. C., **R**, LX, 166.
- Pagaye, *Tavoy* (95 J/8; 14° 6' : 98° 18'), scheelite. J. C. B., **M**, XLIV, 211; cassiterite, 215; chalcopyrite and galena, 220, 221; fluorite, 223; wolfram mine, 282, 318.
- Paget I., *Andamans* (86 C/15; 13° 25' : 92° 50'), foraminiferal sands, Miocene. G. H. T., **M**, XXXV, 201, 203.
- Paghman range, *Afghanistan* (38 B/N. E.; 34° 41' : 68° 52'), relations with Hindu Kush and Koh-i-Baba. H. H. H., **M**, XXXIX, 5, 7; metamorphic rocks, 16; Helmand series, 25, 48.
- Pagoda hill (Taungni Taung), *Cheduba I.* (85 F/9; 18° 46' 30" : 93° 37'), carbonaceous sandstone. F. R. M., **R**, XI, 209; R. R. S., **M**, XLI, 68.
- Paharbullu, *Surguja* (64 I/16; 23° 11' : 82° 52'), Talchir-Barakar boundary. V. B., **R**, VI, 29.
- Pahardiah, *Singhbhum* (73 F/2; 22° 30' : 85° 12'), auriferous quartz. J. M. M., **R**, XXXI, 75, 78; L. L. F., **R**, LIII, 268; galena, 284; tuffs, Iron Ore series. J. A. D., **M**, LIV, 65=Parhardiah.
- Paharewa, *Jubbulpore* (64 A/3; 23° 28' : 80° 6'), pyrolusite, analysis. L. L. F., **M**, XXXVII, 813, 828=Pahrewa.
- Pahargarh, *Narwar* (54 H/9; 24° 58' : 77° 42'), geodetic station. R. D. O., **M**, XLII, 218.
- Pahari, *Alwar* (54 A/5; 27° 49' : 76° 18'), acid and basic granites. A. M. H., **M**, XLV, 97.
- Pahari, *Jaipur* (54 B/13; 26° 46' 30" : 76° 52'), Aravalli quartzites. A. M. H., **R**, XLVIII, 185.
- Pahari, *Jhansi* (54 O/8; 25° 44' : 79° 18'), dam-site. T. H. H., **R**, XXXVIII, 39.

- Paharpur, *Bharatpur* (54 F/9; 26° 56' : 77° 30'), sandstone quarries. H. H. H., **R**, XLIV, 17.
- Paharpur, *Burdwan* (73 I/13; 23° 48' : 86° 56'), Talchir beds, section. W. T. B., **M**, III, 36 (fig.)
- Paharpur, *Monghyr* (72 K/11; 25° 15' 30" : 86° 33'), hot springs. T. O., **M**, XIX, 141.
- Paharpur, *Santal Parganas* (72 P/9; 24° 50' : 87° 35' 30") Rajmahal beds, section. V. B., **M**, XIII, 210.
- Pahladpur, *Muzaffarpur* (72 F/8; 26° 4' : 85° 27'), geodetic station. R. D. O., **M**, XLII, 220.
- Pahlgam, *Kashmir* (43 N/8; 34° 2' : 75° 19'), former glaciation. J. L. G., **M**, XLIX, 280, 337 (Pls. xix, xxii, xxxi)=Pailgam.
- Pahmi, *Nagpur* (55 P/5; 20° 45' 30" : 79° 21' 30"), vertebrate fossils. L. L. F., **R**, LXV, 104.
- Pahrewa, *Jubbulpore* (64 A/3; 23° 28' : 80° 6'), pyrolusite. P. N. B., **R**, XXI, 75, 83; XXII, 224 (Pl. ix, fig. 3)=Paharewa.
- Pahri, *Afghanistan* (29 F/16; 34° 9' : 61° 55'), Tertiary clays. C. L. G., **R**, XVIII, 60; hippuritic limestone. XIX, 50=Paira.
- Pai, *Tavoy* (95 K/11; 13° 27' : 98° 30' 30"), hot spring. T. O., **M**, XIX, 153.
- Paiari, *Rewah* (64 I/4; 23° 8' 30" : 82° 0'), coal seam. T. W. H. H., **M**, XXI, 244.
- Pai-ching, *Yunnan* (101 L/11; 24° 25' : 102° 36'), coal seam. J. C. B., **M**, XLVII, 78.
- Pail, *Jaipur* (54 B/9; 26° 45' : 76° 37'), anticline, Alwar series. A. M. H., **R**, XLVIII, 196.
- Pail, *Shahpur* (43 D/6; 32° 38' : 72° 27' 30"), nummulitic limestone, fault. A. B. W., **M**, XIV, 198.
- Pailgam, *Kashmir* (43 N/8; 34° 2' : 75° 19'), Kuling and supra-Kuling beds. R. L., **M**, XXII, 137; C. S. M., **R**, XXXVII, 325=Pahlgam.
- Paili, *Punch* (43 K/3; 33° 27' 30" : 74° 6' 30"), bauxite. D. N. W., **M**, LI, 325.
- Pai-ma, *Yunnan* (92 P/6; 24° 33' 30" : 99° 15' 30"), Silurian beds, *Monograptus*. J. C. B., **R**, XLIII, 334; XLVII, 260.
- Paimunar Kotal, *Afghanistan* (38 F/2; 34° 36' : 69° 12'), gneissose granite. H. H. H., **M**, XXXIX, 46.
- Paimuri, *Afghanistan* (38 B/1; 34° 47' : 68° 0'), Kalu series. H. H. H., **M**, XXXIX, 23; Red Grit series, 53; natural bridges, 71.
- Painganad, *Tanjore* (58 N/6; 10° 35' : 79° 27'), lateritic gravels, section. R. B. F., **R**, XII, 155.
- Painguzar, *Afghanistan* (33 A/2; 35° 44' 30" : 64° 3' 30"), Jura-Cretaceous, sections. C. L. G., **R**, XIX, 251, 252; H. H. H., **M**, XXXIX, 36.
- Painkanda, *Garhwal* (53 N/14; 30° 41' : 79° 56'), Haimanta-Carboniferous rocks. C. L. G., **M**, XXIII, 98, 108.
- Paipully (Pyapalli), *Kurnool* (57 E/12; 15° 14' : 77° 44' 30"), sectional contour. W. K., **M**, VIII, 23 (fig.)
- Paira, *Afghanistan* (29 F/16; 34° 9' : 61° 55'), *Sphaerulites griesbachi*. H. D., **R**, LVIII, 347 (figs.)=Pahri.
- Paisan, *Kashmir* (43 O/6; 33° 44' 30" : 75° 20'), *Syringothyris* limestone. C. S. M., **R**, XI, 220.

- Paisnah, *Afghanistan* (33 E/13; 35° 46' : 65° 46'), Jurassic-Cretaceous beds C. L. G., **R**, XIX, 251.
- Paitan, *Aurangabad* (47 M/7; 19° 28' : 75° 23'), alluvial basin. E. V., **R**, XXXIII, 38=Python.
- Paizargarh, *Belgaum* (47 L/12; 16° 9' 30" : 74° 37'), laterite. R. B. F., **M**, XII, 180, 207; C. S. F., **M**, XLIX, 72.
- Pajal, *Simla* (53 F/5; 30° 58' : 77° 17'), Jaunsar series. G. E. P., **M**, LIII, 88.
- Pakal, Pakhal, *Warangal* (56 O/13; 17° 57' 30" : 79° 57'), artificial lake. W. K., **R**, V, 55; **M**, XVIII, 162, 175; Cuddapah quartzite and limestone, 217.
- Pakariha, *Rewah* (64 E/15; 23° 15' 30" : 81° 56'), coal seam. T. W. H. H., **M**, XXI, 244.
- Pakhar, *Ranchi* (73 A/10; 23° 34' : 84° 36'), bauxite. C. S. F., **M**, XLIX, 168.
- Pakher, *Alwar* (54 A/16; 27° 9' : 76° 51' 30'), pegmatite, Alwar series. A. M. H., **M**, XLV, 99.
- Pakhong, *Pakokku* (84 K/7; 21° 27' : 94° 27'), lignite, analysis. G. S. L., **R**, XXV, 192; R. R. S., **M**, XLI, 69.
- Pakki Kot, *Waziristan* (38 H/13; 32° 58' : 69° 47'), trachyte, petrology. H. H. H., **R**, XXIX, 68.
- Pakri Pat, *Ranchi* (73 A/7; 23° 25' : 84° 15'), bauxite. C. S. F., **M**, XLIX, 180, L. L. F., **R**, LIII, 250.
- Pakti, *Sibi* (39 G/12; 29° 4' : 69° 31'), marine beds with vertebrate remains. G. E. P., **R**, XXXVII, 144.
- Pakul, *Gurgaon* (53 H/3; 28° 22' : 77° 13' 30'), hot spring. T. O., **M**, XIX, 132.
- Pakur, *Santal Parganas* (72 P/14; 24° 36' : 87° 50'), quarry site for road metal. C. S. M., **R**, XLV, 117.
- Pakyong, *Sikkim* (78 A/12; 27° 14' : 88° 36'), copper-ore. T. H. H., **R**, XXXIX, 239.
- Pal, *Idar* (46 E/5; 23° 56' : 73° 22'), Phyllite series. C. S. M., **M**, XLIV, 112.
- Pal, *Kolhapur* (47 L/3; 16° 18' : 74° 10' 30'), 'kankar'. H. C. J., **R**, LIV, 419.
- Pal, *Sirmur* (53 F/5; 30° 56' : 77° 20'), unconformity, Chail-Blaini series. G. E. P., **M**, LIII, 23.
- Pala, *Idar* (46 E/6; 23° 42' 30" : 73° 21'), mica-schist. C. S. M., **M**, XLIV, 64.
- Pala, *Jaintia Hills* (83 C/11; 25° 25' : 92° 34'), U. Tertiary sandstones. T. D. L., **R**, XVI, 202.
- Pala, *Kashmir* (43 F/11; 34° 28' : 73° 35'), Murree beds. R. L., **R**, XV, 19.
- Pala Khal, *Dhar* (55 B/7; 22° 27' : 76° 16' 30'), manganese conglomerate, analysis. L. L. F., **R**, XXXI, 48.
- Palachaori, *Chhindwara* (55 J/12; 22° 12' : 78° 39' 30'), coal seam. W. T. B., **R**, XV, 134.
- Palaisake (Pyinseikhe), *Ramri I.* (85 E/11; 19° 22' : 93° 32'), oil seepage. E. H. P., **M**, XL, 186, 192.
- Palak, *Kawardha* (64 F/4; 22° 10' : 81° 8'), Chilpi Ghat beds. W. K., **R**, XVIII, 188.
- Palakod, *Salem* (57 L/3; 12° 18' : 78° 4' 30'), corundum. C. S. M., **R**, XXX, 118 (Pl. xiii); T. H. H., **M**, XXVIII, 237; L. L. F., **R**, LXV, 111.
- Palakucha, *Saraiskela* (73 J/2; 22° 36' : 86° 1'), potstone. V. B., **M**, XVIII, 148.
- Palamaner, *Chittoor* (57 K/12; 13° 12' : 78° 45'), granitoid gneiss. R. B. F., **R**, XII, 191.

- Palamcottah, *Tinnevely* (58 H/10;  $8^{\circ} 43' : 77^{\circ} 44'$ ), granular quartz-rock. R. B. F., **M**, XX, 25; granite veins in gneiss, 33.
- Palamodu, *Anantapur* (57 F/13;  $14^{\circ} 55' : 77^{\circ} 57' 30''$ ), augite-norite, petrology. P. L., **R**, XXIII, 260; T. H. H., **R**, XXX, 30=Polamuoda.
- Palampur, *Kangra* (52 D/12;  $32^{\circ} 6' : 76^{\circ} 32'$ ), earthquake, 1905. C. S. M., **M**, XXXVIII, 40, 311 (Pls. ix, x).
- Palana, *Bikaner* (45 E/5;  $27^{\circ} 51' : 73^{\circ} 16'$ ), coalfield. T. D. L., **A**, **R**, 1899, 34; **R**, XXX, 122 (Pl. xiv); R. R. S., **M**, XLI, 112; analysis of coal. G. S. L., **R**, XXXI, 49; horizon of seam. E. V., **R**, XXXVI, 314=Pallana.
- Palana, *Rawalpindi* (43 G/11;  $33^{\circ} 17' : 73^{\circ} 30' 30''$ ), M. Siwalik fossils. D. N. W., **M**, LI, 284, 362.
- Palandri, *Punch* (43 G/10;  $33^{\circ} 43' : 73^{\circ} 41'$ ), L. Siwalik fossils. D. N. W., **M**, LI, 274; gas seepage, 327.
- Palangaing, *Pakokku* (84 K/10;  $21^{\circ} 35' : 94^{\circ} 36'$ ), Pegu anticline. H. H. H., **R**, XLVII, 23.
- Palangyin, *L. Chindwin* (84 N/7;  $22^{\circ} 16' : 95^{\circ} 15' 30''$ ), Pegu inlier. E. H. P., **R**, LXII, 103.
- Palanish hill, *Persia* (25 E/8;  $27^{\circ} 5' : 57^{\circ} 17'$ ), thrust fault. G. E. P., **M**, XLVIII, pt. 2, 8.
- Palampur, *Panch Mahals* (46 F/11;  $22^{\circ} 25' 30'' : 73^{\circ} 35'$ ), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 115.
- Palanyon, *Minbu* (84 L/16;  $20^{\circ} 6' : 94^{\circ} 55'$ ), Plateau Gravel. E. H. P., **M**, XL, 157.
- Palapgaddi, *Vizagapatam* (65 N/7;  $18^{\circ} 23' : 83^{\circ} 27'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1095.
- Palappatti, *Salem* (58 I/4;  $11^{\circ} 10' 30'' : 78^{\circ} 14' 30''$ ), magnesite. C. S. M., **R**, XXIX, 38.
- Palar R., *Chingleput* (57 P./N. E;  $12^{\circ} 35' : 79^{\circ} 58'$ ), change in course. R. B. F., **M**, X, 20.
- Palar R., *Sirmur* (53 F/6;  $30^{\circ} 42' : 77^{\circ} 24'$ ), Simla slates. H. B. M., **M**, III, pt. 2, 43=Palor R.
- Palasi, *Dhar* (55 B/6;  $22^{\circ} 33' : 76^{\circ} 26'$ ), columnar trap. P. N. B., **M**, XXI, 54 =Pullassee.
- Palatara, *Ohhindwara* (55 K/14;  $21^{\circ} 42' 30'' : 78^{\circ} 59' 30''$ ), effects of thrust-faulting. E. H. P., **R**, LIII, 24.
- Palauk, *Tavoy* (95 K/11;  $13^{\circ} 16' : 98^{\circ} 37' 30''$ ), wolfram and associated minerals. J. C. B., **R**, L, 117=Palouk.
- Palavalsa, *Vizagapatam* (65 N/11;  $18^{\circ} 15' : 83^{\circ} 39'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1048.
- Palaw, *Mergui* (95 L/9;  $12^{\circ} 59' : 98^{\circ} 39'$ ), tin-ore. H. H. H., **R**, LI, 18; J. C. B., **R**, LII, 239.
- Paldeo, *Baghelkhand* (63 C/16;  $25^{\circ} 6' : 80^{\circ} 47'$ ), Tirkhowan limestone. H. B. M., **M**, II, 14.
- Palera, *Punch* (43 K/5;  $33^{\circ} 48' 30'' : 74^{\circ} 17'$ ), lava flows, Dogra Slate series. D. N. W., **M**, LI, 230.
- Paletwa, *N. Arakan* (84 C/15;  $21^{\circ} 18' : 92^{\circ} 51'$ ), Burma earthquake, 1912. J. C. B., **M**, XLII, 68.

- Palezkar, *Afghanistan* (29 J/7; 34° 29' 30" : 62° 22'), Talchir beds (?). C. L. G., R, XVIII, 62; XIX, 57; H. H. H., M, XXXIX, 33.
- Palghat, *Malabar* (58 B/9; 10° 46' : 76° 40'), effect of pass on monsoon winds. W. K., M, IV, 232.
- Palgi, *Surguja* (64 M/5; 23° 50' : 83° 22'), hornblende dykes. C. L. G., M, XV, 138.
- Pali, *Kolaba* (47 F/2; 18° 32' 30" : 73° 13'), hot spring. T. O., M, XIX, 106.
- Pali, *Nagpur* (55 O/3; 21° 26' 30" : 79° 12'), pyrolusite. L. L. F., M, XXXVII, 78, 82, 303, 600 (Pl. iii); hollandite, 90; dannemorite ?, 148; piedmontite, 189, 301; manganophyllite ?, 196; manganese-ore, 957 (Pl. xlii).
- Pali, *Rewah* (64 E/3; 23° 21' 30" : 81° 3'), Barakar plants. O. F., R, XIII, 183; boring site for coal. T. W. H. H., M, XXI, 176; R. R. S., M, XLI, 78.
- Palia, *Tehri* (53 J/5; 30° 54' : 78° 18'), hot springs, sulphurous. T. O., M, XIX, 122.
- Paliarpur, *Idar* (46 E/2; 23° 33' : 73° 12'), Aravalli schists. C. S. M., M, XLIV, 62.
- Palikonda, *N. Arcot* (57 L/13; 12° 55' : 78° 56'), porphyritic gneiss. R. B. F., R, XII, 192; felspar-porphyry, 195.
- Palin, *Mandalay* (93 B/8; 22° 6' 30" : 96° 26'), Ordovician fossils. T. D. L., M, XXXIX, pt. 2, 122.
- Paliura, *Jeypore* (65 N/2; 18° 45' : 83° 1'), laterite. C. S. F., M, XLIX, 186.
- Palkai, *Hazaribagh* (72 L/8; 24° 3' 30" : 86° 23'), dam-site. E. H. P., R, LV, 17.
- Palkanah (Abu Sarkal), *Iraq* (2 B/13; 34° 49' : 44° 45' 30"), oil wells. E. H. P., M, XLVIII, 53.
- Palkonda, *Vizagapatam* (65 N/14; 18° 36' : 83° 45' 30"), manganese-ore as road metal. W. K., R, XIX, 155; L. L. F., M, XXXVII, 1044.
- Pallagiri, *Kistna* (65 D/5; 16° 47' : 80° 19' 30"), Cuddapah quartzites. R. B. F., R, XVIII, 21.
- Pallaini Ghat, *Simla* (53 E/4; 31° 10' : 77° 0' 30"), Chail overthrust, section. G. E. P., M, LIII, 98.
- Pallalakuppam, *N. Arcot* (57 L/13; 12° 53' : 78° 46'), biotite-gneiss. L. L. F., R, LXV, 111.
- Pallana, *Bikaner* (45 E/5; 27° 51' : 73° 16'), analyses of coal. G. S. L., R, XXX, 257, 259=Palana.
- Pallandur, *Bhandara* (64 D/5; 20° 51' : 80° 16'), Sakoli beds. V. B., R, X, 181.
- Pallang Roa (Palin), *Cheduba I.* (85 F/10; 18° 40' 30" : 93° 41'), coal seam. F. R. M., R, XI, 209; E. H. P., M, XL, 182, 233; R. R. S., M, XLI, 68.
- Pallavaram, *Chingleput* (66 D/1; 12° 59' 30" : 80° 10'), garnetiferous leptynite. T. H. H., M, XXVIII, 172 (figs. & Pl. xv); pyroxenite, analysis. G. S. L., A. R., 1899, 7.
- Pallikonda, *N. Arcot* (57 L/13; 12° 55' : 78° 56'), syenite. E. H. P., R, LXI, 123=Palikonda.
- Palma (Punmah) glacier, *Ladakh* (43 M/13; 35° 49' : 75° 58'), former extent. R. L., R, XIV, 45.
- Palni, *Madura* (58 F/11; 10° 27' : 77° 31'), tantalite. L. L. F., M, XXXVII, 205; allanite. G. H. T., R, LII, 309.
- Palooqadha R., *Hazaribagh* (73 E/10; 23° 41' : 85° 41' 30"), Talchir beds, section. V. B., M, VI, 114.

- Palor R., *Sirmur* (53 F/6; 30° 42' : 77° 24'), Jaunsar series. G. E. P., **M**, LIII, 30; overthrust, 33 = Palar R.
- Palosina, *Waziristan* (38 L/3; 32° 23' : 50° 5'), nummulitic limestone. M. S., **R**, LIV, 92, 94.
- Palouk, *Tavoy* (95 K/11; 13° 16' : 98° 37' 30"), hot spring. T. O., **M**, XIX, 154 = Palauk.
- Palsama, *Bamra* (73 C/15; 21° 17' : 84° 53' 30"), sillimanite. E. H. P., **R**, LIX, 51; J. A. D., **M**, LII, 163.
- Paluncha, *Warangal* (65 C/10; 17° 35' : 80° 41'), Kamthi sandstones. W. T. B., **R**, V, 25; W. K., **R**, V, 46.
- Pam Kollatha Tattu, *Sandur* (57 A/12; 15° 1' : 76° 35'), manganese-ore. L. L. F., **M**, XXXVII, 1003, 1028.
- Pamachaung, *Bashahr* (53 I/5; 31° 52' : 78° 23'), Ordovician quartzite. H. H. H., **M**, XXXVI, 23.
- Pamakheri, *Nimar* (55 B/11; 22° 20' : 76° 36' 30"), quartz-syenite. P. N. B., **M**, XXI, 8; dolerite, 53.
- Pamidipadu, *Guntur* (65 D/3; 16° 18' 30" : 80° 2' 30"), epidote-gneiss. R. B. F., **M**, XVI, 30.
- Pammal, *Chingleput* (66 D/1; 12° 58' 30" : 80° 8'), pyroxenite dykes. T. H. H., **A. R.**, 1898, 23; **M**, XXVIII, 164.
- Pa-mon, *N. Shan States* (93 B/11; 22° 26' 30" : 96° 41'), Ordovician and Silurian beds. T. D. L., **M**, XXXIX, pt. 2, 90, 133.
- Pampur, *Kashmir* (43 J/16; 34° 1' : 74° 55'), Karewahs. R. L., **R**, XI, 32; hot spring, sulphurous. T. O., **M**, XIX, 119.
- Pamur, *Nellore* (57 M/8; 15° 6' : 79° 25'), stone implements in laterite, R. B. F., **M**, X, 52; schistose series. XVI, 13 (fig.); travertine, 99.
- Panzalan, *Ladakh* (52 J/15; 34° 17' : 78° 46'), alluvial fans. R. L., **M**, XXII, 52 (figs.).
- Pan Kuan, *Dhar* (55 B/6; 22° 32' : 76° 17'), pyrolusite, in travertine. L. L. F., **M**, XXXVII, 81, 396, 675, (Pl. xv).
- Panagar, *Jubbulpore* (64 A/3; 23° 17' : 80° 0'), Gosalpur quartzite. P. N. B., **R**, XXII, 220.
- Panakot, *Dir* (38 M/16; 35° 13' : 71° 52'), granite. H. H. H., **R**, XLV, 277.
- Panamik, *Ladakh* (52 F/9; 34° 47' : 77° 33'), hot spring. R. L., **M**, XXII, 44; T. O., **M**, XIX, 125.
- Panamparai, *Tinnevely* (58 H/15; 8° 28' : 77° 56' 30"), calcareous grit. sub-recent. R. B. F., **M**, XX, 65, 102.
- Pananoa hill, *Monghyr* (72 L/5; 24° 46' : 86° 24'), columbite and tantalite. C. L. G., **R**, XXVIII, 10; T. H. H., **R**, XLVI, 284; L. L. F., **M**, XXXVII, 204.
- Panara, *Chhindwara* (55 J/12; 22° 12' 30" : 78° 33'), millstones. E. J. J., **M**, XXIV, 58; coal, analysis. R. R. S., **M**, XLI, 95 = Pannara.
- Panasput, *Vizagapatam* (65 J/12; 18° 6' 30" : 82° 40'), spinel-bearing rock. T. L. W., **R**, XXXVI, 4.
- Panchala, *Nagpur* (55 O/7; 21° 24' : 79° 26'), rhodonite. L. L. F., **M**, XXXVII, 141; manganese-ore, 941.
- Panchbhadra, *Jodhpur* (45 C/1; 25° 56' : 72° 10'), salt works. W. T. B., **R**, X, 12 = Pachpadra.



- Panchbhaini, *Surguja* (64 J/13; 22° 56' 30" : 82° 50'), coalfield. R. R. S., **M**, **XLI**, 82.
- Panchbyni, *Santal Parganas* (72 P/11; 24° 17' : 87° 30' 30"), coal seam. V. B., **M**, **XIII**, 184.
- Panchet hill, *Manbhum* (73 I/14; 23° 37' : 86° 46' 30"), description. W. T. B., **M**, **LII**, 27; Raniganj beds, 123; Panchet beds, 130.
- Panchgani, *Satara* (47 G/13; 17° 55' : 73° 48'), aluminous laterite. C. S. F., **M**, **XLIX**, 88.
- Panchgaon, *Chanda* (55 P/3; 20° 22' 30" : 79° 3'), vertebrate fossils. C. A. Matley, **R**, **LIII**, 161.
- Pan-chiao, *Yunnan* (101 C/11; 25° 24' 30" : 100° 38'), Triassic limestone. J. C. B., **R**, **LIV**, 77.
- Panohkura, *Midnapore* (73 N/7; 22° 26' 30" : 87° 24'), earthquake, 1897, undulations of ground. R. D. O., **M**, **XXIX**, 33.
- Panchnauta, *Patiala* (54 A/1; 27° 53' 30" : 76° 0'), mica. P. N. B., **R**, **XXXIII**, 58.
- Pandalur, *Nilgiri* (58 A/7; 11° 29' : 76° 20' 30"), auriferous reefs. W. K., **R**, **VIII**-34; H. H. H., **A. R.**, 1900, 53; epidiorite. **M**, **XXXIII**, pt. 2, 12, 16; charnockite, 13; mica-pegmatite. T. H. H., **M**, **XXXIV**, 65.
- Pandalur hill, *Malabar* (58 A/4; 11° 4' : 76° 11'), basic dyke. P. L., **M**, **XXIV**, 215; laterite, 222.
- Pandaria, *Bilaspur* (64 F/8; 22° 13' : 81° 25'), Vindhyan boundary. W. K., **R**, **XVIII**, 177.
- Pandarwani, *Bulaghat* (55 O/14; 21° 37' : 79° 51'), manganese-ore. L. L. F., **M**, **XXVII**, 750.
- Pandikad, *Malabar* (58 A/4; 11° 6' : 76° 14'), vesicular and pelletal laterite. P. L., **M**, **XXIV**, 219 (Pl. iii, fig. 5).
- Pandim, *Sikkim* (78 A/2; 27° 35' : 88° 12'), scapolite-granulite. H. H. H., **M**, **XXXVI**, 139.
- Pandoli, *Mewar* (45 L/9; 24° 55' 30" : 74° 34'), Delhi quartzites, junction with gneiss. C. A. H., **R**, **XIV**, 295.
- Pandori, *Rawalpindi* (43 G/7; 33° 17' : 73° 29'), Chinji beds. D. N. W., **M**, **LI**, 283.
- Pandrasali, *Singhbhum* (73 F/14; 22° 37' 30" : 85° 47' 00"), kaolin. J. A. D., **M**, **LIV**, 164.
- Pandua, *Palamau* (72 D/4; 24° 10' : 84° 4'), coal seam. T. W. H. H., **M**, **VIII**-339; colliery. R. R. S., **M**, **XLI**, 60=Pandwa and Pandua.
- Pandua Hat, *Manbhum* (73 I/9; 23° 55' : 86° 39'), metamorphic rocks, section V. B., **M**, **XVIII**, 91.
- Pandush, *Hooghly* (79 A/8; 23° 4' : 88° 17'), Calcutta earthquake, 1906. C. S. M., **R**, **XXXVI**, 222.
- Pandwa, *Palamau* (72 D/4; 24° 10' : 84° 4'), serpentine marble. L. L. F., **R**, **LXV**, 35=Pandua and Pandua.
- Paneum (Paniem), *Kurnool* (57 I/6; 15° 31' : 78° 21'), weathering of 'pinnacled quartzite'. W. K., **M**, **VIII**, 63 (fig.); hot spring. T. O., **M**, **XIX**, 147.
- Pangadi, *Godavari* (65 G/12; 17° 1' : 81° 39'), Intertrappean beds. W. T. B., **R**, **V**, 28; W. K., **R**, **VII**, 158=Pungadi.
- Pangamra, *Mewar* (46 I/1; 24° 0' : 74° 6'), marble. E. H. P., **R**, **LXII**, 33.

- Panghsa-pui, *N. Shan States* (93 J/1; 23° 0' : 98° 10'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 145.
- Panghsa-pye, *N. Shan States* (93 F/2; 22° 42' 30" : 97° 14'), Llandovery graptolites. T. D. L., **M**, XXXIX, pt. 2, 125, 343.
- Panghti, *N. Shan States* (93 J/1; 22° 56' : 98° 4' 30"), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 80.
- Pangi, *Bashahr* (53 I/6; 31° 35' : 78° 16'), granite. C. A. M., **R**, X, 221; XII, 57; petrology. XVII, 56, 69; stannolite- and kyanite-schists. H. H. H., **M**, XXXVI, 9.
- Pangkong lake, *Ladakh* (53 K/N. E.; 33° 45' : 78° 40'), Carboniferous beds. R. L., **M**, XXII, 185; description, 258 (note)=Pangong lake.
- Panglong, *N. Shan States* (93 F/5; 22° 49' : 97° 23'), Burma earthquake, 1912. J. C. B., **M**, XLII, 37.
- Pangmamaw (Pankma Hka), *Myitkyina* (92 C/5; 25° 47' : 96° 23'), chromite. E. H. P., **R**, LXIII, 30.
- Pangmaw (Pang Hka), *Myitkyind* (92 C/6; 25° 45' : 96° 21'), chromite. E. H. P., **R**, LXIII, 30; jadeite, 39.
- Pang-me, *N. Shan States* (93 F/13; 22° 53' : 97° 54'), Llandovery graptolites. T. D. L., **M**, XXXIX, pt. 2, 128.
- Pangong Lake, *Ladakh* (52 K/N. E.; 33° 45' : 78° 40'), Panjal slates and Carboniferous beds. R. L., **R**, XIII, 32; soundings. D. G. O., **R**, XLII, 129 — Pangkong lake.
- Pangpo La, *Ladakh* (52 H/14; 32° 43' : 77° 56'), Cretaceous and U. Trias. F. S., **M**, V, 342; R. L., **M**, XXII, 174; C. D., **M**, XXXVI, 316.
- Pangri, *Sikkim* (78 A/9; 27° 48' 30" : 88° 33'), crystalline limestone. H. H. H., **M**, XXXVI, 139.
- Pangsam (E.), *N. Shan States* (93 F/16; 22° 2' : 97° 51'), Llandovery graptolites. T. D. L., **M**, XXXIX, pt. 2, 129.
- Pangsam (W.), *N. Shan States* (93 F/3; 22° 22' : 97° 9' 30"), fault. T. D. L., **M**, XXXIX, pt. 2, 363.
- Pangso, *Sibsagar* (83 F/15; 26° 18' : 93° 46'), trap-dyke. F. H. S., **M**, XXVIII, 77; nummulitic limestone, 83.
- Pangsong, *N. Shan States* (93 B/11; 22° 23' 30" : 96° 44' 30"), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 90.
- Pangtawng, *N. Shan States* (93 F/5; 22° 58' 30" : 97° 21'), outlier. Silurian sandstone. T. D. L., **M**, XXXIX, pt. 2, 137.
- Pangyu, *N. Shan States* (93 B/11; 22° 26' 30" : 96° 37'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 142, 170.
- Pan-hai-tzu, *Yunnan* (101 B/10; 26° 31' : 100° 41'), lake. J. C. B., **R**, LIV, 325.
- Panhala, *Kolhapur* (47 L/1; 16° 48' 30" : 74° 6' 30"), bauxite. C. S. F., **M**, XLIX, 77; H. C. J., **R**, LIV, 420; kaolin, 429.
- Panhoti, *Simla* (53 F/1; 30° 59' : 77° 14'), Jaunsar series. G. E. P., **M**, LIII, 84.
- Pani, *Chota Udaipur* (46 F/15; 22° 29' : 73° 47' 30"), manganese mine. G. V. H., **R**, LIX, 352 (Pls. xxi-xxiii).
- Paniala, *D. I. Khan* (38 L/16; 32° 14' 30" : 70° 52'), Jurassic and Tertiary beds, springs. A. B. W., **M**, XVII, 281.
- Paniali, *Punch* (43 G/10; 33° 41' : 73° 41' 30"), travertine. D. N. W., **M**, LI, 366.

- Panj range, *Persia* (24 C/1; 29° 54' : 56° 6'), volcanic series, Eocene. G. E. P., **M**, XLVIII, pt. 2, 69, 72.
- Panj Ali, *Iraq* (2 A/7; 35° 24' : 44° 27'), anticline, Fars-Kurd series. E. H. P., **M**, XLVIII, 42 (Pl. v).
- Panjar, *Rawalpindi* (43 G/10; 33° 38' 30" : 73° 31'), Kamliabeds. D. N. W., **M**, LI, 279.
- Panjkot, *Kashmir* (43 F/11; 34° 21' : 73° 43'), recumbent fold. D. N. W., **R**, LXV, 211.
- Panjpai, *Kalat* (34 K/5; 29° 55' : 66° 29' 30"), Kojak shales. C. L. G., **R**, XVIII, 59.
- Panjra, *Seoni* (55 O/5; 21° 52' : 79° 25'), laterite conglomerate. R. C. B., **R**, XLVIII, 205.
- Panjshir (valley), *Afghanistan* (38 E/S. E.; 35° 20' : 69° 45'), Hajigak series. H. H. H., **M**, XXXIX, 25.
- Panjtarni, *Kashmir* (43 N/12; 34° 8' : 75° 31'), Panjal slates and Triassic dolomites. R. L., **R**, XI, 44; **XV**, 19.
- Panjur (Palanjur), *Ohingelput* (66 C/4; 13° 1' : 80° 2' 30"), Rajmahal beds, section. R. B. F., **M**, X, 115.
- Panjur, *Kashmir* (43 F/11; 34° 28' : 73° 39'), Eocene-Murree boundary. D. N. W., **R**, LXV, 214.
- Panka Gadh, *Almora* (62 B/16; 30° 13' : 80° 55'), Permian-U. Trias, sections. C. L. G., **M**, XXIII, 101 (Pl. ix, figs. 7, 8).
- Pankabari, *Darjeeling* (78 B/5; 26° 50' : 88° 16'), Damuda plants. F. R. M., **M**, XI, 2; copper-ore, 72.
- Panlaung R., *S. Shan States* (93 C/8; 21° 2' : 96° 25'), coalfield. E. J. J., **R**, XX, 177 (Pl. xii); R. R. S., **M**, XLI, 69; wolfram. J. C. B., **R**, LIV, 236.
- Panna, *Bundelkhand* (63 D/2; 24° 43' : 80° 11'), diamond fields. E. V., **R**, XXXIII, 275 (Pl. xxiv); Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 254 = Punna.
- Pannoba, Panoba, *Kohat* (38 O/14; 33° 36' 30" : 71° 54'), petroleum springs. C. L. G., **R**, XXV, 101, 106 (Pl. ix, fig. 6); H. H. H., **R**, XLIV, 23; E. H. P., **M**, XL, 410 (Pls. lxxx, lxxxi); Eocene anticline. E. S. P., **R**, XLIX, 147.
- Panposh, *Gangpur* (73 B/16; 22° 13' : 84° 48'), dolomite quarries. E. H. P., **R**, LII, 271; L. L. F., **R**, LIII, 254.
- Panripura (Pandepur), *Palamau* (73 A/9; 23° 48' : 84° 32' 30"), Mahadeva beds, plants. V. B., **M**, XV, 89.
- Pansapura, *Kashmir* (43 O/1; 33° 51' : 75° 4' 30"), Gangamopteris beds. C. S. M., **R**, XL, 236.
- Panshuri, *Birbhum* (73 M/5; 23° 46' 30" : 87° 16' 30"), oolitic ironstones. E. H. P., **R**, LXII, 144.
- Pansira Buru, *Singbhum* (73 F/7; 22° 18' : 85° 22'), iron-ore. H. H. H., **R**, L, 14; L. L. F., **R**, LIII, 279; analysis. H. C. J., **R**, LIV, 204.
- Pansrer, *Rewah* (63 H/4; 24° 3' : 81° 14'), Bijawar rocks. R. D. O., **M**, XXXI, 116.
- Pantalagudi (Pandalkudi), *Ramnad* (58 K/3; 9° 23' 30" : 78° 6' 30"), crystalline limestone. R. B. F., **M**, XX, 21, 101.
- Pantanau, *Ma-Ubin* (85 P/5; 16° 59' : 95° 28'), newer alluvium, Irrawaddy delta. W. T., **R**, III, 23; **M**, X, 229.

- Panthal, *Punch* (43 G/10; 33° 36' 30" : 73° 44'), fault. D. N. W., **M**, LI, 277.
- Panti, *Patiala* (53 E/4; 31° 8' 30" : 77° 7'), Blaini limestone. C. A. M., **R**, X, 207; Chail overthrust, section. G. E. P., **M**, LIII, 99.
- Pantol (Painthal), *Jammu* (43 O/3; 33° 19' : 75° 12'), gorge in gneiss. R. L., **R**, IX, 161.
- Panun (Pano), *Sibi* (39 C/5; 29° 53' : 68° 28'), disturbance in recent gravels. R. D. O., **R**, XXV, 25 (Pl. iii).
- Panundrow, *Cutch* (41 A/14; 23° 41' : 68° 45'), columnar basalt. A. B. W., **M**, IX, 240 (fig.).
- Panuria, *Burdwan* (73 I/13; 23° 49' : 86° 59'), Talchir-Barakar beds. E. H. P., **R**, LXII, 141.
- Panurutti, *S. Arcot* (58 M/9; 11° 46' : 79° 33'), kaolin. H. F. B., **M**, IV, 171 = Punrutti.
- Panvel (Pen), *Kolaba* (47 F/2; 18° 44' : 73° 6'), boring for water. E. H. P., **R**, LX, 57.
- Paoni, *Adilabad* (56 M/5; 19° 49' : 79° 16' 30"), borings for coal. T. W. H. H., **M**, XIII, 59; R. R. S., **M**, XLI, 90, 100.
- Pao-p'ing-ch'ang, *Yunnan* (101 B/6; 26° 44' : 100° 28'), copper mines. J. C. B., **M**, XLVII, 114.
- Papaconda, *Godavari* (65 G/10; 17° 35' : 81° 33'), crystalline rocks. W. K., **R**, X, 58.
- Papanasam, *Tinnevely* (58 H/6; 8° 42' : 77° 22'), hydro-electric project. E. H. P., **R**, LXI, 42.
- Papanayakanhalli, *Bellary* (57 A/8; 15° 14' 30" : 76° 29'), Dharwar beds, section. R. B. F., **R**, XIX, 105; **M**, XXV, 103.
- Paparapatti, *Salem* (57 L/4; 12° 13' : 78° 3' 30"), corundum. C. S. M., **R**, XXIX, 43.
- Papien-kuan, *Yunnan* (101 D/2; 24° 31' : 100° 3'), augen-gneiss. J. C. B., **R**, LIV, 297.
- Papirda, *Ranchi* (73 F/9; 22° 57' : 85° 39'), carbon-phyllite, analysis. J. A. D., **M**, LIV, 46; metamorphosed tuff, 68.
- Papun, *Salween* (94 F/8; 18° 4' : 97° 27'), gneissic series. E. L. C., **R**, LX, 294; Pegu earthquake, 1930. J. C. B., **R**, LXV, 241.
- Papur (Pahapal), *Yeotmal* (55 L/16; 20° 10' : 78° 48'), coal seam. T. W. H. H., **M**, XIII, 43; R. R. S., **M**, XLI, 89.
- Par, *Gwalior* (54 J/4; 26° 2' : 78° 2'), quartzite and shales. C. A. H., **R**, III, 34 (fig.); iron-ore, 42; H. B. M., **M**, II, 62.
- Para R., *Hundes* (52 L/12; 32° 7' : 78° 42'), central gneiss. F. S., **M**, V, 16; Babeh slates and sandstones, 19; deposition of gypsum. F. R. M., **M**, V, 158; Permian beds. H. H. H., **M**, XXXVI, 93; Rupshu granite, 97; alluvial gold, 102.
- Para (Parang) R., *Spiti* (52 L/2; 32° 34' : 78° 10'), Megalodon (Para) limestone. F. S., **M**, V, 63; H. H. H., **M**, XXXVI, 84.
- Paradol, *Korea* (64 I/7; 23° 26' 30" : 82° 26'), dolerite dyke. L. L. F., **M**, XLI, 156.
- Paraghat, *Bilaspur* (64 J/8; 22° 2' : 82° 19'), limestone, analysis. H. C. J., **R**, LVII, 133.

- Parahio R., *Spiti* (52 H/16; 32° 2' : 77° 55'), Cambrian. H. H. H., **M**, XXXVI, 13-19 (Pls. vi, vii); Ordovician, section, 22; Pentamerus beds, 27; Carboniferous, 44; Trias, 74.
- Parala, *Simla* (53 E/8; 31° 6' : 77° 24'), Blaini limestone. C. A. M., **R**, X, 208; Chail beds. G. E. P., **M**, LIII, 115.
- Parang pass, *Spiti* (52 L/3; 32° 27' : 78° 2'), U. Tagling limestones, fossils. F. S., **M**, V, 80; H. H. H., **M**, XXXVI, 87.
- Pararia (Pandaria), *Jubbulpore* (64 A/3; 23° 15' 30" : 80° 0' 30"), pyrolusite. P. N. B., **R**, XXI, 86.
- Parari-ki-khad, *Sirmur* (53 E/8; 31° 1' : 77° 17'), inversion of Simla slates. G. E. P., **M**, LIII, 119.
- Pararwa, *Rewah* (63 L/8; 24° 6' 30" : 82° 26'), dolomitic limestone, analysis. F. R. M., **R**, VI, 42.
- Paras, *Hazara* (43 F/6; 34° 39' 30" : 73° 28'), Carboniferous-Eocene section. D. N. W., **R**, LXV, 210.
- Parasdiha, *Surguja* (64 M/2; 23° 40' : 83° 13'), Raniganj plants. O. F., **R**, XIII, 67, 68.
- Parasgarh, *Belgaum* (48 M/2; 15° 44' : 75° 8'), Kaladgi quartzites, spring and cave. R. B. F., **M**, XII, 102.
- Parasi, *Rewah* (63 L/4; 24° 2' 30" : 82° 3'), Raniganj plants. O. F., **R**, XIII, 185.
- Parasia, *Burdwan* (73 M/2; 23° 39' : 87° 10'), coal seam. W. T. B., **M**, III, 85.
- Parasnath, *Hazaribagh* (73 I/1; 23° 57' 30" : 86° 8'), garnetiferous schists. T. H. H., **R**, XXIX, 23.
- Paraspani, *Seoni* (55 O/5; 21° 51' 30" : 79° 20'), oolitic iron-ore. R. C. B., **R**, XLVIII, 205.
- Parassia, *Chhindwara* (55 J/16; 22° 11' 30" : 78° 46'), coal seam. W. T. B., **R**, XV, 130=Dongur-Parasia.
- Paraswa, *Cutch* (41 I/15; 23° 28' : 70° 56'), Jurassic and Tertiary beds, sections. A. B. W., **M**, LX, 122.
- Paraswara Ghat, *Balaghat* (55 O/14; 21° 40' : 79° 48'), manganese-ore. L. L. F., **M**, XXXVII, 437.
- Parbad, *Manbhum* (73 I/6; 23° 41' 30" : 86° 27'), Barakar beds. T. W. H. H., **M**, V, 248.
- Parbatipur, *Dinajpur* (78 C/14; 25° 39' : 88° 55'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 76.
- Parcha, *Sarila* (54 O/10; 25° 44' 30" : 79° 43' 30"), gypsum. T. D. L., **R**, XXXVII, 281.
- Pardee, *Chanda* (56 M/13; 19° 46' : 79° 45' 30"), augite-norite, charnockite series. K. H., **R**, LV, 256.
- Pa dhan Ghogri, *Chhindwara* (55 K/9; 21° 56' 30" : 78° 42'), Deccan trap, elevation of base. H. H. H., **R**, XLIII, 31.
- Pardhina, *N. Kanura* (48 I/12; 15° 12' : 74° 34'), manganese-ore. E. H. P., **R**, LX, 47.
- Parel, *Bombay* (47 A/16; 19° 0' 30" : 72° 50'), trap and Intertrappean beds. A. B. W., **M**, V, 213.
- Parewa, *Bara Banki* (63 F/2; 26° 38' : 81° 12'), geodetic station. R. D. O., **M**, XLII, 213.

- Parewar R., *Mirzapur* (63 L/10; 24° 31' : 82° 45'), Red Shale series. R. D. O., **M**, XXXI, 169.
- Pargabad, *Manbhum* (73 I/6; 23° 40' 30" : 86° 25' 30"), coal seams. T. W. H. H., **M**, V, 305.
- Pargarh, *Belgaum* (48 I/1; 15° 49' : 74° 3'), Intertrappean gravels. R. B. F., **M**, XII, 197.
- Pargarh (Pavugada), *Tumkur* (57 F/8; 14° 6' : 77° 17'), Dharwar schists (?). R. B. F., **R**, XXII, 34.
- Parghat, *Lakhimpur* (92 A/1; 27° 54' : 96° 10'), alluvial gold. Dalton & Hannay, **M**, I, 90.
- Parhardiah, *Singbhum* (73 F/2; 22° 30' : 85° 12'), auriferous quartzite. F. H. H., **M**, XXXIII, pt. 2, 68 (Pl. x)=Pahardiah.
- Pari (N.), *Attock* (43 C/2; 33° 40' : 72° 1' 30"), 'erratics'. W. T., **R**, XIII, 229; Nummulitic shale. E. H. P., **R**, LXIII, 138=Purri.
- Pari (S.), *Attock* (43 C/8; 33° 9' 30" : 72° 18'), L.-M. Siwalik boundary. E. H. P., **M**, XL, 407.
- Pari dara, *Afghanistan* (38 F/15; 34° 27' : 69° 46'), schists and crystalline limestone. C. L. G., **R**, XXV, 70; H. H. H., **M**, XXXIX, 11.
- Pari Darweza, *Jhelum* (43 G/4; 33° 2' : 73° 13'), L. and M. Siwalik fossils. D. N. W., **M**, LI, 283, 284.
- Paria, *Singbhum* (73 F/10; 22° 42' : 85° 42'), chlorite-sericite-schist. J. A. D., **M**, LIV, 84.
- Pariaon, *Partabgarh* (63 G/5; 25° 50' : 81° 22'), geodetic station. R. D. O., **M**, XLII, 213.
- Parihar hills, *Jaisalmer* (40 I/12; 27° 13' : 70° 35'), Umia beds (?) R. D. O., **R**, XIX, 159.
- Parjori, *Manbhum* (73 I/2; 23° 43' : 86° 15'), dam-site. H. H. H., **R**, LI, 12.
- Parla, *Jaipur* (54 A/12; 27° 6' : 76° 36'), granite. A. M. H., **M**, XLV, 19, 20 basal conglomerate, Alwar series, 46 (Pl. i, fig. 1).
- Parmand (Pirmed), *Travancore* (58 C/14; 9° 33' : 76° 59'), quartz reefs. W. K., **R**, XV, 87.
- Parnalli (Perunali), *Ramnad* (58 K/8; 9° 14' : 78° 19'), laterite. R. B. F., **M**, XX, 51; meteorite. J. C. R., **M**, XLIII, 250.
- Parnametta, *Guntur* (66 A/2; 15° 32' 30" : 80° 0'), iron-ore beds. R. B. F., **M**, XVI, 19.
- Parneira hill, *Surat* (46 D/14; 20° 33' : 72° 57'), Deccan trap. A. B. W., **R**, I, 32.
- Paroovalapoor, *Trichinopoly* (58 I/16; 11° 1' : 78° 52' 30"), cotton soil, relations with alluvium. H. F. B., **M**, IV, 30 (fig.); Utatur beds, 82; relations with Trichinopoly beds, 113 (fig.).
- Parot, *Punch* (43 K/2; 33° 33' 30" : 74° 10'), Siwalik outlier. D. N. W., **M**, LI, 270, 278.
- Parpik glacier, *Hunza* (42 P/1; 36° 59' : 75° 14'), advance in 1925. K. M., **R**, LXIII, 253.
- Parpish, *Chitral* (42 D/4; 36° 8' : 72° 4'), section, Devonian-Fusulina beds. E. H. P., **R**, LV, 38.
- Parsa, *Surguja* (64 J/13; 22° 51' : 82° 48' 30"), hornblendic rocks. V. B., **R**, VI, 40; coal seam. R. R. S., **M**, XLI, 82.

- Parsa dara, *Afghanistan* (38 B/9; 34° 57' : 68° 43'), Helmand series. H. H. H., **M**, XXXIX, 26; Tertiary beds, 38; Ghorband limestone, 49.
- Parsapani, *Hoshangabad* (55 J/2; 22° 36' 30" : 78° 2'), Jabalpur plants. E. H. P., **R**, LXIII, 112.
- Parsatola, *Balaghat* (64 B/16; 22° 2' : 80° 47'), lateritic manganese-ore. L. L. F., **M**, XXXVII, 732.
- Parseya (Parasia), *Hazaribagh* (72 H/16; 24° 10' : 85° 48'), lead-ore. L. L. F., **R**, LIII, 282.
- Parsioni, *Nagpur* (55 O/3; 21° 22' : 79° 9'), rhodochrosite. L. L. F., **M**, XXXVII, 124, 291; rhodonite, 141; dannemorite (?), 148; manganese-ore, 897; Archæan quartzites. **R**, LIV, 46.
- Parsoda, *Nagpur* (55 O/7; 21° 23' 30" : 79° 18'), psilomelane, L. L. F., **M**, XXXVII, 112, 114; manganese-ore, 893.
- Parsola, *Mewar* (46 I/5; 23° 57' : 74° 23'), Aravalli outlier. E. H. P., **R**, LXIII, 144.
- Parsoli, *Mewar* (45 K/16; 25° 6' 30" : 74° 53' 30"), Vindhyan boundary. H. B. M., **R**, I, 70.
- Parsora, *Rewah* (64 E/3; 23° 26' : 81° 6'), Rhætic plants. O. F., **R**, XIII, 187; T. W. H. H., **R**, XIV, 134; **M**, XXI, 209; G. C., **R**, XLVIII, 29.
- Partabgarh, *Alwar* (54 A/4; 27° 15' : 76° 10'), anticlines in Alwar series. A. M. H., **M**, XLV, 53; Kushalgarh limestone, 60; hornstone breccia, 70; Ajabgarh quartzite, 85; copper mines, 121=Pertabgarh.
- Partabgarh, *United Provinces* (63 G/13; 25° 53' 30" : 81° 56'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 248.
- Partabpur, *Surguja* (64 M/3; 23° 29' : 83° 13'), granitic gneisses and schists. V. B., **R**, VI, 40.
- Partial, *Nalgonda* (65 D/6; 16° 39' : 80° 24'), diamond gravels. R. B. F., **R**, XVIII, 24.
- Partsan, *Chitral* (37 P/16; 36° 2' 30" : 71° 51'), realgar. E. H. P., **R**, LV, 13.
- Parun, *Persia* (17 O/13; 29° 57' : 55° 53' 30"), olivine-basalt, U. Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 69.
- Parundoor, *Chingleput* (57 P/9; 12° 56' 30" : 79° 44' 30"), Conjeveram gravels. R. B. F., **M**, X, 43.
- Paruth (Parad), *Akola* (55 H/5; 20° 51' : 77° 16' 30"), white sand in alluvium. A. B. W., **R**, II, 3.
- Parvati, *Bijapur* (47 P/16; 16° 2' : 75° 47' 30"), millstones. R. B. F., **M**, XII, 262.
- Parwan, *Afghanistan* (38 E/4; 35° 8' : 69° 13' 30"), hematite beds. Hajigak series. H. H. H., **M**, XXXIX, 26, 47.
- Parwar, *Gaurihar* (63 C/7; 25° 21' : 80° 18'), gypsum. T. D. L., **R**, XXXVII, 285.
- Parwar (Parvad) Ghat, *Belgaum* (48 I/2; 15° 40' : 74° 12' 30"), gorge and waterfall in Deccan trap. R. B. F., **M**, XII, 49 (Pl. i).
- Parwara, *D. I. Khan* (39 I/2; 31° 32' : 70° 9'), overfold in Eocene beds. T. D. L., **R**, XXVI, 81 (Pl. viii); rippling in Siwalik sandstones, 90.
- Parwatipet, *Adilabad* (56 M/11; 19° 15' : 79° 42'), Kota limestone. W. K., **R**, XIII, 17.

- Passai (Pasai) R., *Manbhum* (73 I/9; 23° 49' : 86° 40'), Talchir beds, section. W. T. B., **M**, III, 34; coal seams, 69, 74.
- Pasang R., *Surguja* (64 M/4; 23° 12' : 83° 2'), coal seams. V. B., **R**, VI, 37; analysis, 39; R. R. S., **M**, XLI, 81.
- Pasang Wang, *Putao* (92 E/14; 27° 40' : 97° 59'), alluvial gold. M. S., **R**, L, 252.
- Pashok, *Darjeeling* (78 A/8; 27° 4' 30" : 88° 24'), copper-ore. F. R. M., **M**, XI, 75.
- Pasighat, *Abor Hills* (82 P/8; 28° 4' : 95° 20'), limit of gold in the Dihong. J. M. M., **R**, XXXI, 224.
- Paskim, *Ladakh* (52 B/2; 34° 30' 30" : 76° 12'), Tertiary trap-rocks. R. L., **M**, XXII, 111.
- Paspathri, *Punch* (43 K/6; 33° 43' : 74° 25' 30"), glaciated mountain slopes. D. N. W., **M**, LI, 311.
- Passarabhaia (Pasrabahiar), *Hazaribagh* (72 L/8; 24° 11' : 86° 18'), Talchir plants. O. F., **R**, X, 137; XIII, 177-182; XIV, 241.
- Passaria (Ronhe), *Hazaribagh* (73 E/5; 23° 45' : 85° 17'), 'tiger's paw' sandstones, Barakar stage. T. W. H. H., **M**, VII, 301.
- Passu glacier, *Hunza* (42 L/15; 36° 29' : 74° 54'), demarcation of snout. H. F. Bridges, **R**, XXXVII, 221.
- Pastannah, Pastuni, *Kashmir* (43 O/1; 33° 59' 30" : 75° 4' 30"), Permo-Carboniferous beds. C. S. M., **R**, XL, 239; Trias, 241 (Pl. xxxii); H. H. H., **R**, XLIV, 40.
- Pasti, *Chitral* (37 P/16; 36° 5' : 71° 56'), Fusulina limestone. E. H. P., **R**, LV, 38.
- Pasu, *Hunza* (42 L/15; 36° 28' : 74° 54'), Permo-Carboniferous limestone. H. H. H., **R**, XLV, 298; movements of glacier snout. K. M., **R**, LXIII, 236 (Pl. vi; 7).
- Patakhera, *Betul* (55 J/4; 22° 6' : 78° 10'), coal seam. E. J. J., **M**, XXIV, 43; R. R. S., **M**, XLI, 95.
- Patal hill, *Hazaribagh* (73 E/2; 23° 40' 30" : 85° 7'), U. Panchet beds. T. W. H. H., **M**, VII, 330.
- Pataly (Pattalai), *Coimbatore* (58 E/8; 11° 3' 30" : 77° 29' 30"), aquamarine mines. T. H. H., **M**, XXX, 158=Padiyur and Padyur.
- Patan, *Jaipur* (45 M/13; 27° 48' : 75° 59'), anticline, Alwar series. A. M. H., **R**, LIV, 365.
- Patan, *Jodhpur* (45 I/11; 27° 27' : 74° 33'), secondary limestone. A. M. H., **R**, LXV, 487.
- Patan, *Kashmir* (43 J/12; 34° 9' : 74° 33'), earthquake, 1885. E. J. J., **R**, XVIII, 222 (Pl. xi).
- Patan, *Satara* (47 G/15; 17° 22' : 73° 54'), laterite. C. S. F., **M**, XLIX, 91.
- Patan Saongi, *Nagpur* (55 O/3; 21° 19' 30" : 79° 1'), Talchir beds (?). W. T. B., **M**, IX, 304.
- Patarghatta, *Bhagalpur* (72 O/3; 25° 20' : 87° 14'), kaolin. M. S., **R**, XXXVIII, 135 (Pl. ii)=Patharghatta and Patraghatta.
- Patarknang, *Khasi Hills* (78 O/2; 25° 37' 30" : 91° 9'), corundum. F. E. Jackson, **R**, XXXVI, 323.
- Pa-ta-shan, *Yunnan* (92 P/10; 24° 32' : 99° 34'), conglomerates, Kao-liang series. J. C. B., **R**, XLVII, 262.



- Pataudh, *Mirzapur* (63 P/2; 24° 32' : 83° 2'), leucite-rock. R. D. O., **M**, XXXI, 167.
- Patchamullay, *Trichinopoly* (58 I/11; 11° 18' : 78° 38'), physical features. W. K., **M**, IV, 238; iron-ore beds, 295.
- Patendur hill, *Bangalore* (57 H/9; 12° 59' : 77° 44'), laterite. R. B. F., **R**, XV, 193.
- Pa-tep, *N. Shan States* (93 J/8; 22° 14' : 98° 23'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 82.
- Patera, *Narsinghpur* (55 I/16; 23° 3' : 78° 53'), fossil bones and wood in Narbada alluvium. W. T., **M**, II, 289.
- Pateuri, *Dehra Dun* (53 F/13; 30° 51' : 77° 57'), Mandhali beds. G. E. P., **M**, LIII, 44.
- Patgaon, *Kolhapur* (47 H/16; 16° 7' 30" : 73° 57'), dam-site. C. S. F., **M**, XLIX, 82.
- Pathalghora, *Singhbhum* (73 J/6; 22° 32' 30" : 86° 27'), apatite-magnetite-rock. L. L. F., **R**, LIII, 295=Patharghara and Pathorghora.
- Pathankot, *Gurdaspur* (43 P/11; 32° 16' 30" : 75° 39'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 8=Puthankot.
- Pathar, *Rajpipla* (46 G/6; 21° 37' 30" : 73° 17'), trachyte. P. N. B., **R**, XXXVII, 173.
- Pathardi, *Basti* (63 I/15; 27° 26' : 82° 45'), geodetic station. R. D. O., **M**, XLII, 213.
- Pathare Gali, *Punch* (43 K/5; 33° 49' : 74° 26'), Agglomerate Slates. D. N. W., **M**, LI, 308.
- Patharghara, *Singhbhum* (73 J/6; 22° 32' 30" : 86° 27'), apatite-magnetite-rock. H. H. H., **R**, L. 14=Pathalghora and Pathorghora.
- Patharghata, *Bhagalpur* (72 O/3; 25° 20' : 87° 14'), Barakar beds, section. V. B., **M**, XIII, 196; 'kankar', 239; pottery clay, 240=Patarghatta and Patraghatta.
- Pathargaua, *Korea* (64 I/11; 23° 26' : 82° 36'), coal seam. T. W. H. H., **M**, XXI, 244.
- Pathe, *Behul* (55 F/16; 22° 10' : 77° 52'), building stone. E. J. J., **M**, XXIV, 58.
- Pathipura, *Idar* (46 E/11; 23° 28' : 73° 30'), cleavage in phyllites. C. S. M., **M**, XLIV, 114 (fig.).
- Pathorghora, *Singhbhum* (73 J/6; 22° 32' 30" : 86° 27'), apatite-magnetite-rock. L. L. F., **R**, XXXVI, 128=Pathalghora and Patharghara.
- Pathransai, *Ohhindwara* (55 K/13; 21° 56' 30" : 78° 53'), Deccan trap flow. L. L. F., **R**, XLVII, 93.
- Pathur (Putturu), *Chittoor* (57 O/4; 13° 15' : 79° 1'), steatite. F. R. M., **R**, XXII, 63; J. R. Royle, **R**, XXIII, 125.
- Pati, *Jodhpur* (45 C/14; 25° 43' 30" : 72° 55'), pebble beds in Malani rhyolites. T. D. L., **M**, XXXV, 69.
- Patkum, *Manbhum* (73 E/16; 23° 2' : 85° 57'), alluvial gold. J. M. M., **R**, XXXI, 33.
- Patna, *Bihar* (72 G/2; 25° 35' : 85° 13'), Cachar earthquake, 1869. T. O., **M**, XIX, 33.
- Patna, *Korca* (64 I/11; 23° 18' : 82° 41' 30"), Archæan inlier. L. L. F., **M**, XLI, 162.

- Patoohi, *Punch* (43 G/14 ; 33° 39' : 73° 45' 30"), main boundary fault. D. N. W., **M**, LI, 328 (Pl. x, fig. 3).
- Patola, *Punch* (43 G/9 ; 33° 56' : 73° 37'), U. Murree beds. D. N. W., **M**, LI, 270.
- Patpara, *Rewah* (63 H/15 ; 24° 21' : 81° 52'), Kheinjua limestone. P. N. D., **M**, XXXI, 148.
- Patparri, *Karauli* (54 B/15 ; 26° 18' : 76° 51'), fault. A. M. H., **M**, XLV, 170 (fig.).
- Patpur, *Puri* (73 H/11 ; 20° 25' : 85° 39'), boring site for coal. V. B., **R**, X, 68.
- Patraghatta, *Bhagalpur* (72 O/3 ; 25° 20' : 87° 14'), kaolin. H. F. B., **R**, XXXVIII, 142 (Pl. i)=Patarghatta and Patharghatta.
- Patrapali, *Gangpur* (73 B/4 ; 22° 10' : 84° 1'), brecciated quartz. L. L. F., **R**, LXV, 74.
- Patrapara, *Angul* (73 C/16 ; 21° 5' : 84° 46'), carbonaceous shales, section. W. T. B., **M**, I, 60 ; Mahadeva-Damuda unconformity, 65 ; coal seam. **R**, V, 64 ; R. R. S., **M**, XLI, 38.
- Patroda, *Hoshangabad* (55 F/14 ; 22° 35' : 77° 47' 30"), faulted Mahadeva boundary. J. G. M., **M**, II, 231.
- Patrora, *Bhopal* (55 J/5 ; 22° 58' : 78° 22'), cranium of Elephant in Narbada alluvium. W. T., **M**, II, 292.
- Patti, *Charkari* (63 D/5 ; 24° 45' : 80° 15' 30"), diamond workings. E. V., **R**, XXXIII, 286.
- Pattukotta Cheruvu, *Anantapur* (57 E/12 ; 15° 9' : 77° 30' 30"), quartz reefs. R. B. F., **R**, XIX, 108.
- Pattukotai, *Tanjore* (58 N/7 ; 10° 26' : 79° 19'), red loam. R. B. F., **R**, XII, 155.
- Patulla (Paturda), *Buldana* (55 D/9 ; 20° 57' : 76° 44'), conglomerate in alluvium. A. B. W., **R**, II, 3.
- Pauhunri, *Sikkim* (78 A/13 ; 27° 57' : 88° 50'), moraines. H. H. H., **M**, XXXVI, 136, 149.
- Pauk, *Pakokku* (84 K/7 ; 21° 27' : 94° 28'), Yaw stage, nummulites. G. C., **R**, XLIV, 52 ; coalfield, examination of lignites. C. H. L., **R**, LVI, 364.
- Pau-ka-Ghat, *Patiala* (53 E/4 ; 31° 8' : 77° 2'), Chail overthrust, section. G. E. P., **M**, LIII, 97.
- Paukaung, *Myitkyina* (92 G/9 ; 25° 58' : 97° 31'), Tertiary beds. M. S., **R**, L, 246.
- Paukaung, *Prome* (85 N/9 ; 18° 54' 30" : 95° 33'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 239.
- Pauktaik, *L. Chindwin* (84 J/16 ; 22° 10' : 94° 48'), alluvial gold. T. H. P., **R**, LXI, 56.
- Pauktaing, *Henzada* (85 N/3 ; 18° 23' : 95° 12'), mud volcanoes. M. S., **R**, XLI, 262 ; road-metal, 264 ; E. H. P., **M**, XL, 177.
- Pauktaw, *Prome* (85 N/6 ; 18° 42' : 95° 28'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 239.
- Paumben, *Ramnad* (58 O/3 ; 9° 17' : 79° 13'), earthquake, 1881, tidal wave. R. D. O., **R**, XVII, 48.
- Pauna, *Chanda* (55 P/4 ; 20° 14' 30" : 79° 5'), Intertrappean beds. C. A. Matley, **R**, LIII, 160.
- Paunar, *Wardha* (55 L/9 ; 20° 47' : 78° 40'), 'reh' salts. L. L. F., **R**, I, 296.
- Paunari, *Chhindwara* (55 K/13 ; 21° 58' : 78° 56'), fault in Deccan trap. L. L. F., **R**, XLVII, 118.

- Paungdaw, *Tavoy* (95 J/12; 14° 1' : 98° 33'), bismuth. J. C. B., **M**, XLIV, 218, 222; stibnite, 221; fluorite, 223; wolfram mines, 298 (Pl. xxiv).
- Paungdawthi, *Pegu* (94 C/10; 17° 43' 30" : 96° 38'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 235.
- Paungga, *L. Chindwin* (84 N/4; 22° 5' : 95° 4'), volcanic rocks. R. D. O., **R**, XXXIV, 137.
- Paunggyi, *Minbu* (84 L/8; 20° 1' 30" : 94° 29'), Eocene beds. G. C., **R**, XLI, 229.
- Paupugnee (Papaghni) R., *Cuddapah* (57 J/10; 14° 32' : 78° 38'), Gulcheru quartzites. W. K., **M**, VIII, 148; trap flow, 162; Pulivendla quartzite, unconformity, 172 (fig.).
- Paura, *Sirmur* (53 F/6; 30° 41' 30" : 77° 25' 30"), Blaini series. G. E. P., **M**, LIII, 32.
- Pauri, *Garhwal* (53 J/16; 30° 9' : 78° 46' 30"), quartzites and slates. R. D. O., **R**, XVI, 163.
- Paushar hill (Pasar Malai), *S. Arcot* (58 M/1; 11° 51' : 79° 5'), granitoid gneiss. W. K., **M**, IV, 299.
- Pavagad hill, *Panch Mahals* (46 F/11; 22° 28' : 73° 31'), lavas, petrography. L. L. F., **R**, XXXIV, 148 (Pls. xviii-xxii)=Powagurh hill.
- Pavia (Powyea), *Banda* (63 C/11; 25° 27' : 80° 44'), geodetic station. R. D. O., **M**, XLII, 213.
- Pavulur, *Guntur* (66 A/1; 15° 51' 30" : 80° 10'), Rajmahal beds, section. R. B. F., **M**, XVI, 69 (fig.).
- Pawanda (Paunda), *Bashahr* (53 E/14; 31° 33' : 77° 55'), hornblende-rock. C. A. M., **R**, XIX, 71; petrology, 77.
- Pawar Dawna, *Bhandara* (55 O/16; 21° 9' : 79° 50'), kyanite-rock. S. K. C., **R**, LXV, 293.
- Pawmang, *U. Chindwin* (83 N/12; 26° 0' 30" : 95° 42'), gold and platinum. H. S. B., **R**, XLIII, 255.
- Pawsuko, *Salween* (94 F/8; 18° 7' : 97° 16' 30"), Chaung Magyi inlier. E. L. C., **R**, LX, 296.
- Paya, *Amherst* (95 E/13; 15° 46' : 97° 57'), tin-ore. J. C. B., **R**, L, 104; LII, 241.
- Paynbyu, *S. Shan States* (93 D/10; 20° 44' 30" : 96° 36'), coal seam. C. S. M., **A. R.**, 1900, 150; **R. R. S.**, **M**, XLI, 70.
- Payagawpu, *Salween* (94 F/3; 18° 20' : 97° 7'), dam-site. E. H. P., **R**, LV, 18; Chaung Magyi series. E. L. C., **R**, LX, 296; Plateau Limestone, 298.
- Payagyi, *Pegu* (94 C/11; 17° 28' : 96° 31' 30"), earthquake, 1930. J. C. B., **R**, LXV, 232.
- Payagyigon, *Myingyan* (84 P/2; 20° 43' : 95° 4'), Miocene fossils. G. C., **R**, XXXVI, 131; oilfield. XXXVII, 229 (Pls. x, xi); E. H. P., **M**, XL, 126, 133 (Pl. xxxii).
- Payakudi, *Trichinopoly* (58 J/14; 10° 42' : 78° 51'), lateritic breccia. R. B. F., **R**, XII, 154.
- Payaypu, *Meiktila* (93 C/4; 21° 13' 30" : 96° 1'), Irrawadian conglomerates. E. H. P., **R**, LX, 85.
- Payaywa, *Minbu* (84 L/12; 20° 6' : 94° 32'), Shwezeta sandstone, fossils. H. H. H., **R**, XLI, 74; *Ampullina birmanica*. E. V., **R**, LIII, 361.
- Pazar R., *Raigarh* (64 N/8; 22° 6' : 83° 25'), coal seams. V. B., **R**, VIII, 111; W. K., **R**, XIX, 220.

- Pe, *Tavoy* (95 K/11;  $13^{\circ} 27' : 98^{\circ} 30' 30''$ ), metamorphism of Mergui beds. J. C. B., **M**, XLIV, 181; granite, 191, 307; wolfram, **R**, L, 116.
- Pebin, *Mandalay* (93 C/5;  $21^{\circ} 52' : 96^{\circ} 19'$ ), Zebingyi beds. T. D. L., **M**, XXXIX, pt. 2, 167.
- Pe-bin, *U. Chindwin* (83 O/4;  $25^{\circ} 5' : 95^{\circ} 2'$ ), alluvial gold. H. S. B., **R**, XLIII, 254.
- Pebingon, *Thayetmyo* (85 I/11;  $19^{\circ} 28' : 94^{\circ} 39'$ ), nummulites, Laki horizon. G. C., **R**, XLI, 322.
- Pedakota, *Vizagapatam* (65 J/16;  $18^{\circ} 5' : 82^{\circ} 57'$ ), sapphirine. H. C., **R**, LXIII, 446.
- Pedda Allavapad, *Nellore* (57 M/11;  $15^{\circ} 19' : 79^{\circ} 37' 30''$ ), crystalline limestone. R. B. F., **M**, XVI, 23.
- Pedda Arikatla, *Nellore* (57 M/10;  $15^{\circ} 31' 30'' : 79^{\circ} 32'$ ), crystalline limestone. R. B. F., **M**, XVI, 23.
- Pedda Duggada, *Kurnool* (56 L/4;  $16^{\circ} 3' : 78^{\circ} 9' 30''$ ), Koil-Kuntla limestone and quartzite. W. K., **M**, VIII, 47.
- Pedda Gopatti, *Warangal* (65 C/8;  $17^{\circ} 10' : 80^{\circ} 16'$ ), iron-ore beds. R. B. F., **R**, XVIII, 17.
- Pedda Paipully, *Anantapur* (57 F/5;  $14^{\circ} 57' : 77^{\circ} 19'$ ), hematite-schist. R. B. F., **R**, XIX, 102.
- Peddakoo hill (Jangamgunta Konda), *Nellore* (57 M/6;  $15^{\circ} 33' : 79^{\circ} 17'$ ), section, Nallamalai series. W. K., **M**, VIII, 225 (fig.).
- Peddamadur, *Guntur* (65 D/6;  $16^{\circ} 33' : 80^{\circ} 24'$ ), graphitic gneiss. R. B. F., **M**, XVI, 25.
- Peddavagi, *Kistna* (65 H/1;  $16^{\circ} 48' 30'' : 81^{\circ} 6' 30''$ ), building stone, U. Gondwana. W. K., **M**, XVI, 227, 253.
- Peddavaram, *Peddawaram, Nellore* (57 N/13;  $14^{\circ} 59' 30'' : 79^{\circ} 54' 30''$ ), Rajmahal beds. R. B. F., **M**, XVI, 52; W. K., **M**, XVI, 174, Cuddalore sandstones, 178.
- Pedhmala, *Idar* (46 E/2;  $23^{\circ} 32' : 73^{\circ} 9'$ ), Ahmednagar sandstone. C. S. M., **M**, XLIV, 138.
- Pedpalli, *Kolar* (57 L/5;  $12^{\circ} 58' 30'' : 78^{\circ} 16' 30''$ ), autoclastic conglomerate, Dharwar. F. H. H., **M**, XXXIII, 5, 79.
- Peepkala, *Cutch* (41 M/2;  $23^{\circ} 39' : 71^{\circ} 6'$ ), Tertiary beds, section. A. B. W., **M**, IX, 118.
- Peepul Cottah (Pimpalkhota), *Amraoti* (55 G/15;  $21^{\circ} 16' 30'' : 77^{\circ} 57'$ ), manganese-ore. L. L. F., **M**, XXXVII, 691.
- Peepultola, *Panna* (54 P/14;  $24^{\circ} 39' : 79^{\circ} 58'$ ), Kaimur conglomerate. H. B. M., **M**, II, 28.
- Peepur, *Cutch* (41 A/10;  $23^{\circ} 31' 30'' : 68^{\circ} 31'$ ), Eocene beds, fossils. A. B. W., **M**, IX, 249.
- Peera, *Garhwal* (53 J/16;  $30^{\circ} 14' : 78^{\circ} 59'$ ), brecciated rhyolite, petrology. C. S. M., **R**, XX, 166; XXI, 12.
- Pegu, *Burma* (94 C/7;  $17^{\circ} 20' : 96^{\circ} 29'$ ), Artesian wells. T. D. L., **R**, XI, 104; earthquake, 1912. J. C. B., **M**, XLII, 71, 122; 1930. **R**, LXV, 223.
- Pe-han-oh'ang, *Yunnan* (101 L/1;  $24^{\circ} 59' : 102^{\circ} 13'$ ), Cambrian beds. J. C. B., **R**, XLIV, 99.
- Peherna (Paheruwa), *Jubbulpore* (64 A/10;  $23^{\circ} 33' 30'' : 80^{\circ} 32' 30''$ ), faulted outlier of crystalline rocks. J. G. M., **M**, II, 175.

- Peinhnebin, *Minbu* (84 L/12; 20° 5' : 94° 31' 30"), coal and oil seepages. G. C., R, XLI, 227, 230; C. P., R, XLV, 266; E. H. P., M, XL, 168=Pinnebin.
- Pelani R., *Garhwal* (53 K/10; 29° 42' : 78° 45'), L. and M. Siwalik beds. C. S. M., M, XXIV, 124.
- Pellapoondée (Palapundi), *S. Arcot* (58 I/13; 11° 52' 30" : 78° 46' 30"), iron-ore bed. W. K., M, IV, 294.
- Pellnycota (Petnikota), *Kurnool* (57 I/4; 15° 5' : 78° 4'), Narji limestone, unconformity. W. K., M, VIII, 83.
- Peluswa R., *U. Chindwin* (84 I/7; 23° 26' : 94° 18'), coal seams. R. R. S., M, XLI, 73.
- Pemaráputty (Bimarapatti), *N. Arcot* (57 L/12; 12° 2' 30" : 78° 44' 30"), iron-ore beds. W. K., M, IV, 291.
- Pemba-(Penbo Chu), *Tibet* (77 O/1; 29° 54' : 91° 14'), Jurassic beds. H. H. H., R, XXXII, 166.
- Pemo La, *Tibet* (78 E/2; 27° 42' : 89° 13'), Triassic beds (?). H. H. H., R, XXXII, 162.
- Pempogo La, *Tibet* (77 O/1; 29° 48' : 91° 11'), Jurassic beds. H. H. H., M, XXXVI, 161, 170.
- Penam, *Tibet* (77 G/4; 29° 10' : 89° 11'), serpentine. H. H. H., R, XXXII, 169.
- Pench R., *Chhindwara* (55 J/16; 22° 11' : 78° 53'), coalfield. W. T. B., R, XV, 121 (Pl. viii); R. R. S., M, XLI, 94; fault. E. J. J., M, XXIV, 24.
- Pendakallu, *Kurnool* (57 E/11; 15° 22' 30" : 77° 37' 30"), steatite. F. R. M., R, XXII, 62; J. R. Royle, R, XXIII, 125.
- Pendra, *Korea* (64 I/8; 23° 1' : 82° 22'), granitoid gneiss. W. K., R, XVIII, 171.
- Peneichaung, *Tavoy* (95 J/8; 14° 14' : 98° 18'), galena. J. C. B., M, XLIV, 221; wolfram veins in granite, 282.
- Penglun, *N. Shan States* (93 E/8; 23° 15' : 97° 19'), fault, Pangyun-Chaung Magyi beds. E. H. P., R, LXIII, 93.
- Pengol (Penugolana), *Kistna* (65 D/5; 16° 58' 30" : 80° 26' 30"), granular quartz-rock. R. B. F., R, XVIII, 18.
- Pengwai, *N. Shan States* (93 F/6; 22° 35' 30" : 97° 22' 30"), hot springs. T. D. L., M, XXXIX, pt. 2, 363.
- Peni-Khyong, *Akyab* (85 E/1; 20° 0' : 93° 5'), coal seam. R. R. S., M, XLI, 66.
- Pennagaram, *Salem* (57 H/16; 12° 8' : 77° 54'), corundum. C. S. M., R, XXX, 118.
- Penthully (Pentlavalli), *Mahbubnagar* (56 L/8; 16° 4' 30" : 78° 15' 30"), Banganapalli quartzites. W. K., M, VIII, 92.
- Pentlam, *Warangal* (65 C/15; 17° 21' : 80° 46'), Kamthi shales. W. T. B., R, V, 25.
- Pentlum, *Kistna* (65 H/5; 16° 53' : 81° 27'), Cuddalore sandstones, iron-ore. W. K., M, XVI, 251, 256.
- Perambalur, *Trichinopoly* (58 I/16; 11° 14' : 78° 52'), phosphate deposits. L. L. F., R, XLVI, 283.
- Peranturei (Perunduraj), *Coimbatore* (58 E/11; 11° 17' : 77° 35'), magnetic iron-ore. C. L. G., R, XXVIII, 152=Perindoré.
- Perapi, *Vizagapatam* (65 N/11; 18° 16' : 83° 37'), green pyroxene. L. L. F., M, XXXVII, 137, 142; manganese-garnet, 180; kodurite, 246, 255; manganese-ore, 1077 (fig.).

- Perij, *Andamans* (87 A/13;  $11^{\circ} 56' : 92^{\circ} 47'$ ), raised beach. R. D. O., **R**, XVIII, 144.
- Perim I., *Cambay* (46 C/6;  $21^{\circ} 36' : 72^{\circ} 21'$ ), geology. W. T. B., **M**, VI, 373; F. F., **M**, XXI, 111; fauna, 115; R. L., **R**, XIV, 155.
- Perindoré, *Coimbatore* (58 E/11;  $11^{\circ} 17' : 77^{\circ} 35'$ ), pegmatite, petrology. A. L., **R**, XXIV, 170; T. H. H., **M**, XXX, 159 (note)=Peranturei.
- Periplas (Pimplas), *Thana* (47 E/2;  $19^{\circ} 38' : 73^{\circ} 3' 30''$ ), hot springs. T. O., **M**, XIX, 109.
- Periya Wurrawuddy (Vadavadi), *S. Arcot* (58 M/6;  $11^{\circ} 34' 30'' : 79^{\circ} 19'$ ), basal beds, Ariyalur stage. H. F. B., **M**, IV, 147.
- Permadvanhalli, *Bellary* (57 E/4;  $15^{\circ} 8' 30'' : 77^{\circ} 3'$ ), trap dyke. R. B. F., **M**, XXV, 164.
- Permalpolliam (Periyammalalaiyam), *Trichinopoly* (58 M/4;  $11^{\circ} 11' 30'' : 79^{\circ} 0' 30''$ ), basal beds, Trichinopoly stage. H. F. B., **M**, IV, 120.
- Permalrajapet, *N. Arcot* (57 O/12;  $13^{\circ} 6' : 79^{\circ} 34'$ ), magnetism in dyke. R. B. F., **R**, XII, 196.
- Perracurrah (Pirakarai Nadu), *Salém* (58 I/7;  $11^{\circ} 24' : 78^{\circ} 19'$ ), joints in gneiss. W. K., **M**, IV, 307.
- Perryagoody Muddavoor (Periya Kudimaduvu), *Salem* (58 I/5;  $11^{\circ} 51' : 78^{\circ} 25'$ ), 'torrent mounds'. W. K., **M**, IV, 349.
- Persepolis, *Persia* (17 C/13;  $29^{\circ} 56' : 52^{\circ} 50'$ ), hippuritic limestone. G. E. P., **M**, XXXIV, pt. 4, 75.
- Perseverence estate, *Wynaad* (58 A/7;  $11^{\circ} 27' : 76^{\circ} 23'$ ), auriferous reefs. H. H. H., **M**, XXXIII, pt. 2, 21.
- Pertabgarh, *Alwar* (54 A/4;  $27^{\circ} 15' : 76^{\circ} 10'$ ), copper-ore. C. A. H., **R**, X, 91.
- Pertulla (Purtala), *Chhindwara* (55 J/10;  $22^{\circ} 33' : 78^{\circ} 44' 30''$ ), sandstone altered by trap. J. G. M., **M**, II, 194.
- Perua Ghag, *Jashpur* (73 B/5;  $22^{\circ} 47' : 84^{\circ} 23'$ ), waterfall. C. S. F., **M**, XLIX, 160.
- Perumali, *Vizagapatam* (65 N/11;  $18^{\circ} 26' 30'' : 83^{\circ} 34'$ ), manganese-ore. L. L. F., **M**, XXXVII, 434, 462, 1102.
- Perumalpett (Perumallapatti), *Chingleput* (57 O/16;  $13^{\circ} 6' 30'' : 79^{\circ} 59' 30''$ ), Rajmahal beds. R. B. F., **M**, X, 117.
- Perumapalayam, *Salem* (58 I/6;  $11^{\circ} 40' : 78^{\circ} 18' 30''$ ), iron smelting. T. H. H., **R**, XXV, 148.
- Perumbakam, *S. Arcot* (58 M/5;  $11^{\circ} 47' : 79^{\circ} 21'$ ), augite-andesite, petrology. T. H. H., **R**, XXX, 36; hypersthene-granite, analysis, 260.
- Perungalur, *Pudukkottai* (58 J/15;  $10^{\circ} 29' : 78^{\circ} 56'$ ), Cuddalore grits, section. R. B. F., **R**, XII, 151.
- Perwa, *Sirohi* (45 D/10;  $24^{\circ} 37' : 72^{\circ} 34'$ ), marble. E. H. P., **R**, LXI, 27.
- Peshawar, *N. W. F. Prov.* (38 N/12;  $34^{\circ} 1' : 71^{\circ} 35'$ ), hot spring. T. O., **M**, XIX, 115; pottery, ornamentation. L. L. F., **M**, XXXVII, 602; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 226.
- Pe-t'a-chin, *Yunnan* (101 C/2;  $25^{\circ} 33' 30'' : 109^{\circ} 7'$ ), gneissose granite. J. C. B., **R**, XLVII, 241.
- Pe-tchen (? Pa-chia), *Yunnan* (101 L/14;  $24^{\circ} 33' : 102^{\circ} 48'$ ), copper mine. J. C. B., **M**, XLVII, 103.

- Pethathali, *Garhwal* (53 N/13 ; 30° 54' : 79° 52'), Silurian beds, section. C. L. G., **M**, XXIII, 102.
- Pethet (Petkat), *U. Chindwin* (84 J/9 ; 22° 53' 30" : 94° 41'), oil seepage. E. H. P., **M**, XL, 145.
- Petiani, *Karachi* (40 C/3 ; 25° 21' : 68° 9'), outliers, Gaj beds. W. T. B., **M**, XVII, 146; Echinoidea, Ranikot series. E. V., **R**, XXXIV, 186; *Conulites*. L. M. D., **R**, LIX, 248.
- Petlur, *Nellore* (57 M/15 ; 15° 27' : 79° 47'), tourmaline-granite. R. B. F., **M**, XVI, 43.
- Pettok, *U. Chindwin* (84 J/9 ; 22° 45' 30" : 94° 31'), alluvial gold. E. H. P., **R**, LXIII, 35.
- Potus, *Chitral* (42 H/5 ; 36° 50' : 73° 20'), U. Devonian beds, warm spring. H. H. H., **R**, XLV, 290.
- Potyi, *Henzada* (85 N/3 ; 18° 17' : 95° 8' 30"), syncline, Akauktaung grits. M. S., **R**, XLI, 262.
- Pe-yin-shan, *Yunnan* (102 A/12 ; 23° 3' : 100° 39' 30"), Triassic fossils. J. C. B., **R**, LIV, 315.
- Phadalpura (Fazalपुरा), *Bundi* (45 O/10 ; 25° 32' 30" : 75° 41'), U. Vindhyan, section. A. L. C., **R**, LX, 169 (fig.).
- Phagwara, *Kapurihala* (44 M/16 ; 31° 13' : 75° 46'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 177.
- Phagwati, *Punch* (43 G/14 ; 33° 44' 30" : 73° 53'), Murree-Siwalik boundary. D. N. W., **M**, LI, 329.
- Phalgran, *Punch* (43 G/9 ; 33° 52' : 73° 36'), Murree-Siwalik boundary. D. N. W., **M**, LI, 278, 330.
- Phalian, *Punch* (43 G/10 ; 33° 42' : 73° 40'), Mang stage, fossils. D. N. W., **M**, LI, 276, 326.
- Phallut, *Sikkim* (78 A/4 ; 27° 13' : 88° 1'), geodetic station. R. D. O., **M**, XLII, 250, 254.
- Phalu (Palu), *Amherst* (94 L/10, 16° 35' : 98° 35'), fossil wood beds. G. C., **R**, LV, 286 ; oil shales, section, 297.
- Phari, *Tibet* (78 E/2 ; 27° 43' : 89° 11'), Jurassic beds. H. H. H., **R**, XXXII, 163 ; **M**, XXXVI, 147 ; Trias (?), 143.
- Pharsabahal, *Jashpur* (64 N/14 ; 22° 30' 30" : 83° 51' 30"), alluvial gold. J. M. M., **R**, XXXI, 61.
- Pharwala, *Rawalpindi* (43 G/6 ; 33° 37' : 73° 18'), Kamliāl stage, syncline. D. N. W., **M**, LI, 282, 340.
- Phekrokejima (Phakekedzumi), *Naga Hills* (83 K/6 ; 25° 40' : 94° 28' 30"), sandstone, Disang series. E. H. P., **R**, XLII, 257.
- Phikekrima, *Naga Hills* (83 K/1 ; 25° 53' : 94° 2'), ferruginous conglomerate, Tipam series. H. H. H., **R**, XL, 290.
- Phillur Gudda, *Shimoga* (48 N/12 ; 14° 5' : 75° 38'), Dharwar conglomerates. R. B. F., **R**, XV, 197.
- Phinphar, *Okhamba* (52 C/8 ; 33° 2' 30" : 76° 25'), Blaini conglomerate. C. A. M., **R**, XVIII, 91.
- Phirce R., *Rupshu* (52 I/1 ; 32° 47' : 78° 14'), Permian beds. H. H. H., **A. R.**, 1900, 197.

- Phisdura, *Chanda* (55 P/3; 20° 21': 79° 2'), Chelonian plastron. R. L., **R**, XXIII, 22 (fig.)=Pisdura.
- Phlangmawphra, *Khasi Hills* (78 O/7; 25° 17' 30": 91° 16'), Cretaceous shoreline. R. W. P., **R**, LV, 159.
- Phlia R., *Mergui* (96 I/15; 11° 25': 98° 56'), coal seam. R. R. S., **M**, XLI, 64.
- Phoenix estate, *Wynaad* (58 A/7; 11° 28': 76° 19' 30"), gold mine. H. H. H., **A. R.**, 1900, 55; F. H. H., **M**, XXXIII, pt. 2, 28 (Pl. vii).
- Phonda Ghat, *Ratnagiri* (47 H/15; 16° 22': 73° 50'), Deccan trap and Kaladgi quartzite. C. J. W., **R**, IV, 45; R. B. F., **M**, XII, 94; trapflows, 177; geodes of amethystine quartz, 190.
- Phoolwari (Phulbadi), *Puri* (73 H/11; 20° 28': 85° 38'), Athgarh sandstones. V. B., **R**, X, 65.
- Phoolwureea, *Hazaribagh* (73 A/13; 23° 57': 84° 58'), Talchir-gneiss boundary. A. J., **M**, LII, 10.
- Phoungaëing, *Thayetmyo* (85 I/15; 19° 28': 94° 54' 30"), Eocene-Pegu boundary. W. T., **M**, X, 282.
- Phoungyi (? Pyaung), *Thayetmyo* (85 I/11; 19° 19': 94° 39'), Nummulitic series. M. S., **R**, XLI, 248.
- Phozami, *Naga Hills* (83 K/14; 25° 42' 30": 94° 46'), brine spring, sulphurous. E. H. P., **R**, XLII, 258.
- Phud Stew, *Khasi Hills* (78 O/11; 25° 20': 91° 30"), dolerite dyke. R. W. P., **R**, LV, 157.
- Phudja-ud, *Khasi Hills* (78 O/7; 25° 19': 91° 27' 30"), Cretaceous beds, junction with gneiss. R. W. P., **R**, LV, 159.
- Phug, *Sikkim* (78 A/7; 27° 16': 88° 17'), hot spring. T. O., **M**, XIX, 130=Phut Sachu.
- Phulchok (Phulchauki Danda), *Nepal* (72 E/6; 27° 34': 85° 25'), crystalline limestone. H. B. M., **R**, VIII, 96.
- Phuljhari, *Punch* (43 G/13; 33° 46' 30": 73° 48'), M. Siwalik plants. D. N. W., **M**, LI, 277.
- Phulmal, *Ali-Rajpur* (46 J/4; 22° 11': 74° 10'), nodular limestone, Cretaceous. P. N. B., **M**, XXI, 36.
- Phulwa, *Rewah* (64 E/13; 23° 52' 30": 81° 54'), weathering of Mahadeva sandstones. T. W. H. H., **R**, XIV, 135.
- Phulwaria, *Shahabad* (63 P/13; 24° 48': 83° 58'), alum manufacture. C. S. F., **R**, LVII, 297.
- Phung Chu, *Tibet* (71 P/2; 28° 34': 87° 7'), Cretaceous syncline. A. M. H., **R**, LIV, 227 (Pls. xi, xii).
- Phunga, *Korea* (64 I/4; 23° 0' 30": 82° 15'), Archæan inlier. L. L. F., **M**, XLI, 161.
- Phut Sachu, *Sikkim* (78 A/7; 27° 16': 88° 17'), hot spring. P. N. B., **R**, XXIV, 219=Phug.
- Phutauli, *Mewar* (45 L/9; 24° 57': 74° 38'), Delhi series, junction with gneiss. C. A. H., **R**, XIV, 295.
- Phutka, *Bilaspur* (64 J/14; 22° 33': 82° 46'), Kamthi beds. W. K., **R**, XVIII, 195.
- Piaram, *Santal Parganas* (72 O/8; 25° 0': 87° 23' 39"), kaolin. M. S., **R**, XXXVIII, 137.



- Pias, *Kishtwar* (43 O/15; 33° 19': 75° 58'), quartzites and gneiss. R. L., R, XI, 52.
- Piazza Raghza, *Waziristan* (38 H/14; 32° 35': 69° 55'), older alluvium. M. S., R, LIV, 96.
- Picherla Konda, *Nellore* (57 M/12; 15° 12': 79° 31'), syncline in Archæan quartzites. R. B. F., M, XVI, 14.
- Pichhli, *Gaya* (72 H/6; 24° 35': 85° 25' 30"), pitchblende, monazite and associated minerals. G. H. T., R, L, 255 (Pls. xxxix-xlii); L. L. F., R, LIII, 293.
- Pichiak, *Jodhpur* (45 F/12; 26° 13': 73° 41' 30"), Aravalli slates. A. M. H., R, LXV, 468; pyroxene-granite dyke, 472.
- Pi-chi-kuan, *Yunnan* (101 L/9; 24° 59': 102° 38'), Permo-Carboniferous fossils. J. C. B., R, XLIV, 110.
- Pichour, *Gwalior* (54 K/5; 25° 57': 78° 23'), Kaimur conglomerate. F. R. M., M, VII, 59.
- Pichree, *Hazaribagh* (73 I/2; 23° 45': 86° 1' 30"), coal seams, section. T. W. H. H., M, VI, 65.
- Pid, *Pidh, Jhelum* (43 D/14; 32° 41': 72° 58' 30"), coal seam. A. B. W., M, XIV, 162; R. R. S., M, XLI, 110; Olive series, section. C. S. M., R, XXIV, 22 (Pl. i, fig. 1).
- Pidaung, *Myitkyina* (92 G/3; 25° 25': 97° 15'), serpentine. E. H. P., R, LXIII, 29.
- Pihar, *Rawalpindi* (43 G/6; 33° 38' 30": 73° 24'), overthrust fault. D. N. W., M, LI, 347.
- Pihra, *Hazaribagh* (72 H/14; 24° 38': 85° 48' 30"), lepidolite with cassiterite. F. R. M., R, VII, 43; T. H. H., M, XXXIV, 23, 50.
- Pilal-marada Gundu, *Sandur* (57 A/12; 15° 0' 30": 76° 36'), manganese-ore. L. L. F., M, XXXVII, 1031.
- Pili, *Amraoti* (55 G/7; 21° 29' 30": 77° 15' 30"), hot spring. T. O., M, XIX, 135.
- Piligao, *Goa* (48 E/14; 15° 33': 73° 57'), manganese-ore. L. L. F., M, XXXVII, 985.
- Pilimissai, *Trichinopoly* (58 M/4; 11° 9' 30": 79° 0'), Cretaceous fossils. C. A. Matley, R, LXI, 339.
- Pillameru, *Chittoor* (57 O/9; 13° 52': 79° 43'), Cuddapah quartzites. W. K., M, XVI, 147.
- Pillur, *Pudukkottai* (58 J/14; 10° 38': 78° 50' 30"), hematitic quartz-rock. R. B. F., R, XII, 145.
- Piloti, *Sirohi* (45 D/6; 24° 31' 30": 72° 25' 30"), marble. E. H. P., R, LXI, 28.
- Pima, Mt., *Yamethin* (93 D/6; 20° 40': 96° 19'), silver-lead ore. T. H. H., R, XXXIX, 256; XLVI, 180; J. C. B., R, LVI, 91.
- Pin R., *Spiti* (52 L/4; 32° 4': 78° 7'), Carboniferous and Triassic beds. F. S., M, V, 25, 31; Cambrian-Permian, section. C. L. G., R, XXII, 161; H. H. H., M, XXXVI, *passim*; U. Trias, section. C. D., M, XXXVI, 299 (fig.).
- Pinangwan, *Gurgaon* (54 E/1; 27° 54': 77° 6'), Ajabgah series. A. M. H., M, XLV, 78; slates, 128.
- Pin-ch'uan Chou, *Yunnan* (101 C/10; 25° 44' 30": 100° 34'), coalfield. J. C. B., M, XLVII, 68; Triassic beds. R, LIV, 81.
- Pind, *Tonk* (45 L/10; 24° 30': 74° 30'), granite and Aravalli rocks. C. S. M., R, XLV, 121.

- Pind Dadun Khan, *Jhelum* (43 H/2; 32° 35': 73° 3'), gas from coal. C. H. Blackburn, **R**, XV, 63.
- Pind Fateh, *Attock* (43 C/11; 33° 28': 72° 41'), Nummulitic series. E. H. P., **R**, LX, 105.
- Pind Nasrula, *Rawalpindi* (43 C/14; 33° 36': 72° 52' 30'), Pleistocene conglomerate. E. H. P., **M**, XI, 401.
- Pind Sultani, *Attock* (43 C/2; 33° 31': 72° 11'), 'erratics.' W. T., **R**, X, 142.
- Pindara, *Kathiawar* (41 F/8; 22° 15': 69° 16'), Gaj series, fossils. F. F., **M**, XXI, 120.
- Pindari glacier, *Almora* (62 B/3; 30° 15': 80° 1'), survey. G. C., **R**, XXXV, 149 (Pls. xlvii-li & lxii).
- Pindarkui, *Hazaribagh* (72 H/4; 24° 11' 30": 85° 7'), 'hot spring, saline. L. L. F., **R**, LIII, 291.
- Pindaya (Pangtara), *S. Shan States* (93 D/9; 20° 56' 30": 96° 41'), argentiferous galena. E. J. J., **R**, XX, 194. Permo-Carboniferous fossils. C. S. M., **A. R.**, 1900, 142; Ordovician beds. J. C. B., **R**, LXV, 410.
- Pindigheb, *Attock* (43 C/8; 33° 14': 72° 16'), 'erratics'. W. T., **R**, X, 142; XIII, 224.
- Pinding, *Singhbhum* (73 F/2; 22° 43' 30": 85° 11'), quartzite, Iron Ore series. J. A. D., **M**, LIV, 26.
- Pindipol, *Warangal* (65 C/3; 17° 19' 30": 80° 0' 30"), diorite dyke. R. B. F., **R**, XVIII, 29.
- Pind-ka-Pahar, *Balaghat* (64 C/5; 21° 59': 80° 27'), bauxite. C. S. F., **M**, XLIX, 135.
- Pindkapar, *Nagpur* (55 O/6; 21° 36': 79° 29'), syncline, Sausar series. E. H. P., **R**, LX, 97.
- Pindrai, *Chhindwara* (55 K/10; 21° 36': 78° 41'), fault in Deccan trap. E. H. P., **R**, LIX, 80.
- Pindwalni, *Garhwal* (53 N/4; 30° 8' 30": 79° 9'), dolerite, petrology. C. S. M., **R**, XXI, 21.
- P'ing-chang, *Yunnan* (102 A/12; 23° 3': 100° 38'), Triassic beds. J. C. B., **R**, LIV, 315.
- Ping-ch'uang, *Yunnan* (92 P/16; 24° 5': 99° 55'), Kaoliang beds, pre-Cambrian. J. C. B., **R**, LIV, 300.
- Ping-hsai, *N. Shan States* (93 F/16; 22° 1': 97° 51'), Llandovery graptolites. T. D. L., **M**, XXXIX, pt. 2, 129.
- Ping-wa, *Yunnan* (101 F/2; 26° 34': 101° 8'), Jurassic beds (?). J. C. B., **R**, LIV, 329.
- Ping-yuan-hsun, *Yunnan* (93 M/13; 23° 58': 99° 54'), Kaoliang beds, pre-Cambrian. J. C. B., **R**, LIV, 304.
- Pinhmi (Pangmi), *S. Shan States* (93 D/10; 20° 35': 96° 41' 30"), Purple sandstones. C. S. M., **A. R.**, 1900, 145.
- Pinjikave, *Madura* (58 F/4; 10° 3': 77° 4'), hydro-electric project. E. H. P., **R**, LXI, 44.
- Pinjor, *Patiala* (53 B/13; 30° 48': 76° 55'), Siwalik beds. H. B. M., **M**, III, pt. 2, 138; fauna of zone. G. E. P., **R**, XLIII, 278, 323.
- Pinlebu, *Katha* (83 P/8; 24° 5': 95° 22'), coalfield. F. N., **R**, XXVII, 120; **R. R. S.**, **M**, XLI, 74; Burma earthquake, 1912. J. C. B., **M**, XLII, 58.

- Pinlena, *Ramri I.* (85 E/12; 19° 5': 93° 40'), gas eruption. E. H. P., **R**, LX, 155.
- Pinlon, *Wuntho* (83 P/16; 24° 1': 95° 49'), auriferous pyrites. F. N., **R**, XXVII, 117.
- Pinnebin, *Minbu* (84 L/12; 20° 5': 94° 31' 30"), coal seam and petroliferous sandstone. H. H. H., **R**, XLI, 74=Peinhnebin.
- Pin-pa-nu, *U. Chindwin* (83 O/4; 25° 1': 95° 0'), alluvial gold. H. S. B., **R**, XLII, 254.
- Pipalgaon, *Bhandara* (55 O/16; 21° 3' 30": 79° 53'), sillimanite-schist. J. A. D., **M**, LII, 206; kyanite-sillimanite rock. S. K. C., **R**, LXV, 288.
- Pipalgaon, *Chanda* (55 P/6; 20° 32' 30": 79° 29' 30"), iron-ore. T. W. H. H., **R**, VI, 78; **M**, XIII, 110; P. N. D., **R**, XXXVIII, 311; L. L. F., **R**, L, 286.
- Pipar, *Jodhpur* (45 F/11; 26° 23': 73° 32'), quartz reefs. A. M. H., **R**, LXV, 470.
- Piparia, *Balaghat* (55 O/14; 21° 40' 30": 79° 47'), manganese-ore. L. L. F., **M**, XXXVII, 704.
- Piparia, *Hoshangabad* (55 J/5; 22° 45': 78° 21'), boring for coal. H. B. M., **R**, XI, 8; R. R. S., **M**, XLI, 92=Pipria.
- Piparia, *Nagpur* (55 O/6; 21° 34': 79° 18'), calc-granulites. E. H. P., **R**, LIX, 81.
- Piparwani, *Rewah* (63 L/7; 24° 28': 82° 30'), Bijawar quartzite. E. V., **M**, XXXI, 60.
- Pipia, *Palamaru* (63 P/6; 24° 31': 83° 27' 30"), L. Vindhyan sandstone. F. R. M., **M**, VII, 38.
- Pipla, *Bundi* (45 O/14; 25° 35' 30": 75° 58'), Samria shales. A. L. C., **R**, LX, 176.
- Pipla, *Ohhindwara* (55 K/10; 21° 35': 78° 44'), Intertropaeal fossils. E. H. P., **R**, LIX, 80.
- Piplade, *Jhabua* (46 J/5; 22° 56': 74° 28' 30"), Lameta limestone. T. H. H., **R**, XXXVII, 46=Piploda.
- Pipli, *Jhelum* (43 H/6; 32° 40' 30": 73° 22'), Salt Marl beds. E. H. P., **R**, LXIII, 136.
- Pipli, *Merwara* (45 G/14; 25° 36': 73° 52'), Alwar quartzites. C. A. H., **R**, XIV, 283.
- Piploda, *Jhabua* (46 J/5; 22° 56': 74° 28' 30"), manganese-ore. L. L. F., **M**, XXXVII, 688=Piplade.
- Piploda, *Malwa* (46 I/14; 23° 37': 74° 56'), earthquake, 1897. R. D. O., **M**, XXIX, 37.
- Pipra, *Rewah* (64 I/9; 23° 58' 30": 82° 41'), corundum and associated minerals. F. R. M., **R**, V, 20; VI, 43; J. A. D., **M**, LII, 188, 244 (Pl. xxv).
- Pipra hill, *Surghuja* (64 M/1; 23° 50': 83° 1'), Mahadeva scarp. C. L. G., **M**, XV, 149 (Pl. v, fig. 1); trap dyke, 153.
- Pipria, *Hoshangabad* (55 J/5; 22° 45': 78° 21'), boring for coal. E. J. J., **M**, XXIV, 11=Pipria.
- Pipria, *Rewah* (64 I/3; 23° 23': 82° 4' 30"), coal seams. T. W. H. H., **M**, XXI, 244.
- Pir, *Sibi* (39 C/1; 29° 59': 68° 8'), oil seepages. R. D. O., **R**, XXIII, 57.
- Pir Ari, *Larkhana* (35 N/11; 26° 19': 67° 43'), hot spring. T. O., **M**, XIX, 113.
- Pir Choki, *Bolan Pass* (34 O/11; 29° 30': 67° 34'), U. Siwalik beds. C. L. G., **M**, XVIII, 16; W. T. B., **M**, XX, 171.
- Pir Fazalshah, *Punch* (43 K/2; 33° 32': 74° 12'), L. Siwalik outlier. D. N. W., **M**, LI, 193.

- Pir Gal, *Waziristan* (38 H/10; 32° 36': 69° 42'), igneous rocks (?). M. S., **R**, LIV, 97.
- Pir Gazi, *Larkhana* (35 N/7; 26° 27': 67° 26' 30'), hot spring. W. T. B., **M**, XVII, 111.
- Pir Jaffir, *Gujrat* (43 H/13; 32° 53' 30": 73° 56'), L. Pleistocene mammalia. R. L., **R**, VIII, 49; L. L. F., **R**, LXV, 120.
- Pir Kahara, *Jhelum* (43 D/10; 32° 39': 72° 44' 30'), overthrust fault. L. L. F., **R**, LXV, 117.
- Pir Mangal, *Karachi* (35 P/1; 24° 59': 67° 2'), Gaj series, *Pecten*. E. V., **M**, L, 433 =Manga Pir and Mugger Pir.
- Pir Pahar, *Santal Parganas* (72 O/12; 25° 5': 87° 43'), kaolin. M. S., **R**, XXXVIII, 136.
- Pir Panjal pass, *Kashmir* (43 K/10; 33° 38': 74° 31'), gneiss and Panjal slates. R. L., **M**, XXII, 214; dolerite sills. D. N. W., **M**, LI, 220.
- Pir Puchi pass, *Chagai* (34 D/10; 28° 43': 64° 44'), syncline in Tertiary beds. E. V., **M**, XXXI, 231 (Pl. viii, fig. 4).
- Pirad glacier, *Lahul* (52 H/11; 32° 15': 77° 31'), former extension. C. A. M., **R**, XII, 69.
- Piran, *Simla* (53 F/5; 30° 58' 30": 77° 17'), Jaunsar series. G. E. P., **M**, LIII, 88.
- Pirapakna (Pirhapattoli), *Ranchi* (73 A/7; 23° 16' 30": 84° 17' 30'), bauxite. C. S. F., **M**, XLIX, 181.
- Pirgunge, *Dinajpur* (78 C/5; 25° 51' 30": 88° 21' 30"), meteorite. J. C. B., **M**, XIII, 251.
- Piriya Ghat, *Sirmur* (53 F/6; 30° 44': 77° 22'), overthrust faults. G. E. P., **M**, LIII, 28.
- Pir-i-Zan Kotal, *Persia* (17 C/2; 29° 35': 52° 1'), Fars series. G. E. P., **M**, XXXIV, pt. 4, 71.
- Piroi, *Simla* (53 E/4; 31° 10' 30": 77° 1' 30"), Blaini limestone. C. A. M., **R**, X, 207; Chail overthrust, sections. G. E. P., **M**, LIII, 98.
- Pirthalla, *Hissar* (44 O/14; 29° 36': 75° 51'), meteorite. H. B. M., **R**, XVIII, 148. J. C. B., **M**, XLIII, 252.
- Pisdura (Pijdura), *Chanda* (55 P/3; 20° 21': 79° 2'), Lameta beds, vertebrate fossils. T. W. H. H., **M**, XIII, 88; C. A. Matley, **R**, LIII, 156, 161 = Phisdura.
- Pisgaon, *Yeotmal* (55 L/16; 20° 9': 78° 49'), boring for coal. T. W. H. H., **R**, X, 97; **M**, XIII, 41; analyses. R. R. S., **M**, XLI, 89.
- Pishin, *Baluchistan* (34 N/2; 30° 35': 67° 0' 30"), lacustrine deposits. R. D. O., **R**, XXV, 38.
- Pishin, *Persia* (31 F/16; 26° 6': 61° 47'), Eocene beds. G. E. P., **M**, XLVIII, pt. 2, 75, 102, 104.
- Pishwara (Pashada), *Bashahr* (53 E/11; 31° 28': 77° 42'), hornblende rock. C. A. M., **R**, XIX, 69; petrology, 76.
- Pislang, *Kashgar* (42 O/7; 37° 20': 75° 23' 30"), limestone, Sarikol series. H. H. H., **R**, XLV, 311.
- Pitak, *Ladakh* (52 F/12; 34° 8': 77° 31' 30"), lacustrine deposits. R. L., **M**, XXII, 67.
- Pitakari, *Manbhum* (73 I/9; 23° 47': 86° 42' 30"), Barakar stage, section. W. T. B., **M**, III, 69.

- Pitigara, *Singhbhum* (73 F/2; 22° 33': 85° 12'), agglomerate, Iron Ore series. J. A. D., **M**, LIV, 87; sheared epidiorite, 90.
- Pitlawad, *Indore* (46 I/16; 23° 1': 74° 48'), volcanic breccia in Deccan trap. T. H. H., **R**, XXXVII, 46.
- Pitol, *Jhabua* (46 J/5; 22° 47': 74° 28'), manganese-ore. L. L. F., **M**, XXXVII, 689.
- Place's Garden, *Chingleput* (57 O/16; 13° 2': 79° 48' 30'), bituminous shale in boring. W. K., **R**, XXV, 2; E. V., **M**, XXXII, 78; R. R. S., **M**, XLI, 104.
- Plastuni (Phalastuni), *Bundi* (45 O/14; 25° 32': 75° 50' 30'), U. Vindhyan, section. A. L. C., **R**, LX, 189 (fig.).
- Plaw-aw, *Mergui* (96 J/13; 10° 56': 98° 54'), coal seams. E. H. P., **R**, LVIII, 24.
- Po, *Sipiti* (52 L/8; 32° 3': 78° 20'), Carboniferous beds. F. S., **M**, V, 25; H. H. H., **M**, XXXVI, 36, 45; Permian conglomerate, 51, 109; Monotis shales, 83; dolerite dyke, 99; galena, 102.
- Podalakur, *Nellore* (57 N/11; 14° 23': 79° 44'), mica. T. H. H., **M**, XXXIV, 64.
- Podampura, *Jaiapur* (54 B/13; 26° 51': 76° 46'), Ajabgarh slate (?). H. H. H., **R**, XLIII, 28.
- Pogulla, *Kurnool* (57 M/3; 15° 19': 79° 10'), Bairenkonda quartzites. W. K., **M**, VIII, 219.
- Pohr Sunt, *Makran* (35 K/3; 25° 29': 66° 3'), Makran series, mollusca. E. V., **M**, L, 280, 415, 427, 436.
- Pohra, *Bhandara* (55 O/16; 21° 2': 79° 51'), corundum and sillimanite. J. A. D., **M**, LII, 204, 246; kyanite rocks. E. H. P., **R**, LXII, 134.
- Po-hsi, *Yunnan* (101 P/4; 24° 12': 103° 8'), copper-ore. J. C. B., **M**, XLVII, 104.
- Poila, *S. Shan States* (93 D/9; 20° 51': 96° 41'), Plateau Limestone. E. H. P., **R**, LXIII, 88=Pwehla.
- Poincy (Ponnai), *N. Arcot* (57 O/8; 13° 8': 79° 15' 30'), magnetism in dyke. R. B. F., **R**, XII, 196.
- Pokaran, *Jodhpur* (40 N/13; 26° 55': 71° 54'), boulder beds. T. D. L., **M**, XXXV, 31; A. M. H., **R**, LXV, 464; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 240=Pokran.
- Pokhan, *Karachi* (35 O/9; 25° 49': 67° 45'), Nari series, mollusca. E. V., **M**, L, 305, 424=Pokran.
- Pokhar, *Ajmer* (45 J/11; 26° 29' 30": 74° 33'), gneiss-Alwar series, contact. C. A. H., **R**, XIV, 285.
- Pokhra, *Basti* (63 J/10; 26° 43': 82° 37'), meteorite. J. C. B., **M**, XLIII, 253.
- Pokran, *Jodhpur* (40 N/13; 26° 55': 71° 54'), boulder beds. W. T. B., **R**, X, 13; R. D. O., **R**, XIX, 123; XXI, 32=Pokran.
- Pokran, *Karachi* (35 O/9; 25° 49': 67° 45'), Khirthar-Nari beds, section. W. T. B., **M**, XVII, 139 (Pl. v, fig. 4); hot spring. T. O., **M**, XIX, 111=Pokhan.
- Pokri, *Garhwal* (53 N/3; 30° 21': 79° 12'), copper mine. T. O., **R**, II, 93; mica-schist, petrology. C. S. M., **R**, XXI, 25.
- Pokta, *Insein* (94 C/3; 17° 26': 96° 8'), faults. E. H. P., **R**, LXII, 117.
- Pola Khal, *Dhar* (55 B/7; 22° 27': 76° 16' 30'), manganese-ore. L. L. F., **M**, XXXVII, 525, 674.
- Palamuoda (Paddapolamada), *Anantapur* (57 F/13; 14° 55' 30": 77° 57' 30"), trap flow, Cheyair series. W. K., **M**, VIII, 198=Palamodu,

- Polaram, *Warangal* (85 G/2; 17° 38': 81° 3'), iron-ore. W. T. B., **R**, IV, 114.
- Polenane Charuvu, *Nellore* (57 M/12; 15° 11' 30": 79° 39' 30"), hematite-schists. R. B. F., **M**, XVI, 21.
- Polliam (Palaiyam), *Trichinopoly* (58 J/2; 10° 43' 30": 78° 8'), crystalline limestone. W. K., **M**, IV, 272.
- Polliam (Mettupalaiyam), *Trichinopoly* (58 I/16; 11° 22': 78° 55'), magnesian travertine. W. K., **M**, IV, 323.
- Pollibetta, *Coorg* (48 P/16; 12° 14' 30": 75° 55'), mica. T. H. H., **M**, XXXIV, 56.
- Polur, *N. Arcot* (57 P/2; 12° 30' 30": 79° 7'), pyrites. E. H. P., **R**, LIX, 50; LX, 50; LXI, 67.
- Poly, Cuddapah (57 N/4; 14° 13': 79° 10' 30"), Bairenkonda-Pullampet unconformity. W. K., **M**, VIII, 215.
- Poma Chaung, *L. Chindwin* (84 J/10; 22° 41': 94° 10'), oil seepages. E. H. P., **M**, XL, 145.
- Pomarang, *Spiiti* (52 L/8; 32° 2': 78° 20'), Permian conglomerate. H. H. H., **M**, XXXVI, 51, 109; fossiliferous limestone. C. D., **M**, XXXVI, 255.
- Pomaw, *N. Shan States* (93 B/15; 22° 22': 96° 50'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 142.
- Pompao (Pamakew), *Khasi Hills* (83 C/3; 25° 25': 92° 5'), granite. P. N. B., **A. R.**, 1902, 27.
- Pompurapy (Vada Ponparappu), *S. Arcot* (58 I/13; 12° 0': 78° 57'), iron-ore. W. K., **M**, IV, 291.
- Ponda, *Goa* (48 I/3; 15° 24': 74° 1'), manganese-ore. L. L. F., **M**, XXXVII, 998.
- Pondaung range, *Pakokku* (84 J/8; 22° 2': 94° 19'), structure. E. H. P., **R**, LVI, 41.
- Pondicherry, *Madras* (58 M/13; 11° 56': 79° 50'), Cretaceous beds. H. F. B., **M**, IV, 4, 24; stratigraphy and fauna. F. K., **R**, XXX, 51 (Pls. vi-x); Artesian wells. W. K., **R**, XIII, 113, 194 (Pls. vii, viii); H. B. M., **R**, XIV, 217; lignite. W. K., **R**, XVII, 194; R. R. S., **M**, XLI, 103; Cutch earthquakes, 1819. R. D. O., **M**, XLVI, 115.
- Pondra (Punara), *Belgaum* (48 I/1; 15° 58': 74° 7'), bauxite. C. S. F., **M**, XLIX, 70.
- Ponglong, *N. Shan States* (93 B/14; 22° 40' 30": 96° 59'), Silurian fossils. T. D. L., **M**, XXXIX, pt. 2, 138.
- Pongwo, *N. Shan States* (93 F/3; 22° 19': 97° 10'), fault-scarp. T. D. L., **M**, XXXIX, pt. 2, 363 (Pl. x).
- Ponia (Pannia), *Balaghat* (55 O/14; 21° 43': 79° 45'), manganese-ore. L. L. F., **M**, XXXVII, 701-706.
- Ponk-Gurha, *Jaipur* (45 M/9; 27° 50': 75° 37'), anticline, Alwar series. A. M. H., **R**, LIV, 367; passage beds, Alwar-Ajabgarh series, 375.
- Ponnani R., *Malabar* (49 N/13; 10° 48': 75° 55'), valley laterite. P. L., **M**, XXIV, 226 (Pl. vi).
- Ponri (Ponda), *Jubbulpore* (64 A/2; 23° 30' 30": 80° 2'), manganese-ore. P. N. B., **R**, XXI, 76; XXII, 226; L. L. F., **M**, XXXVII, 821.
- Ponri, *Korea* (64 J/5; 22° 54': 82° 16'), coal seam. L. L. F., **M**, XII, 209.
- Ponri, *Rewah* (64 E/3; 23° 20': 81° 1' 30"), Talohir beds. T. W. H. H., **R**, XIV, 126, 312.

- Ponri hill, *Maihar* (63 D/12; 24° 13': 80° 44'), Sirbu shales, F. R. M., **M**, VII, 84; pluvial action on shales, 108.
- Ponsee (Yindung), *Yunnan* (92 H/11; 24° 28': 97° 38' 30"), silver-lead mines. J. C. B., **R**, LVI, 93.
- Poodoopolham (Puduppalayam), *Trichinopoly* (58 J/5; 10° 55' 36": 78° 24' 30"), Karumbar rings. W. K., **M**, IV, 369.
- Poodoor (Puttur), *Trichinopoly* (58 J/10; 10° 43': 78° 44' 30"), pegmatite ven. W. K., **M**, IV, 336.
- Poojariputti (Pusarippatti), *Trichinopoly* (58 J/9; 10° 57': 78° 33' 30"), contorted foliation in gneiss. W. K., **M**, IV, 305.
- Pookanum (Poykkunam), *S. Arcot* (58 I/13; 11° 52': 78° 53'), iron-ore bed. W. K., **M**, IV, 292.
- Poolavaindla (Puhvendla), *Cuddapah* (57 J/3; 14° 25': 78° 14'), quartzites, Cheyair series. W. K., **M**, VIII, 168.
- Poolumpett (Pullampet), *Cuddapah* (57 N/4; 14° 7': 79° 12' 30"), slates and limestone, Cheyair series. W. K., **M**, VIII, 203.
- Poonamallee, *Chingleput* (66 C/4; 13° 3': 80° 6' 30"), marine alluvium. R. B. F., **M**, X, 15.
- Poonassa, *Nimar* (55 B/8; 22° 14': 78° 23' 30"), proposed iron works. T. O., **M**, II, 271; Bagh beds. W. T. B., **M**, VI, 217=Punassa.
- Poonoh, *Kashmir* (43 K/1; 33° 46': 74° 5'), water-supply. D. N. W., **M**, LI, 207.
- Poonoo (Barki Punu), *Hazaribagh* (75 E/10; 23° 41': 85° 42'), Talohir boulder bed and sandstone. V. B., **M**, VI, 113.
- Poopalla (Puppala), *Anantapur* (57 F/13; 14° 57' 30": 77° 46' 30"), basal bed, Guloheru stage. W. K., **M**, VIII, 155.
- Poordah (Purdaha), *Manbhum* (73 J/9; 22° 58': 86° 35'), copper-ore. V. B., **R**, III, 76=Purda.
- Poorce (Puri), *Oriasa* (74 E/13; 19° 48': 85° 50'), sand dunes. W. T. B., **M**, I, 275.
- Pooriam Point, *Bassein* (86 I/5; 15° 50': 94° 24'), argillaceous sandstone with nummulites. W. T., **M**, X, 292.
- Pooray (Puraisi), *N. Arcot* (57 P/10; 12° 34' 30": 79° 35'), olvine-norite, petrology. T. H. H., **R**, XXX, 26 (Pl. i, Fig. 3.)
- Poosogyee, *Henzada* (85 N/4; 18° 10': 95° 5'), coal seam. R. R., **R**, XV, 180 =Posugyi.
- Poothoor (Pudur), *Trichinopoly* (58 M/3; 11° 16': 79° 2'), coral-reef limestone. H. F. B., **M**, IV, 59.
- Poothur, *Malabar* (58 A/4; 11° 1': 76° 1'), talus laterite. P. L., **M**, XXIV, 229.
- Popa, Mt., *Myingyan* (84 P/5; 20° 55': 95° 15'), volcano. T. D. L., **R**, XL, 109; E. H. P., **M**, XL, 45.
- Poragar, *Jeyypore* (65 I/2; 19° 33': 82° 10'), laterite. V. B., **R**, X, 170; C. S. F., **M**, XLIX, 185.
- Porahat, *Singbhum* (73 F/6; 22° 36': 85° 26'), alluvial gold. V. B., **M**, XVIII, 143; reef quartz, assays. J. M. M., **R**, XXXI, 77; alluvial gold, 83.
- Porali R., *Las Bela* (35 J/S. W.; 26° 8': 68° 18'), Liassic fossils. T. H. H., **R**, XXXVIII, 26; volcanic series, Cretaceous. E. V., **R**, XXXVIII, 197.
- Poranger, *Singbhum* (73 F/1; 22° 48': 85° 11'), epidiorite flow. J. A. D., **M**, LIV, 87.

- Porasaputtoo, *S. Arcot* (57 L/16; 12° 3': 78° 59' 30"), iron-ore. W. K., *M*, IV, 291.
- Porbandar, *Kathianwar* (41 G/10; 21° 38': 69° 36'), raised beach. W. T. B., *R*, V, 101; milliolite. F. F., *M*, XXI, 135; Cutch earthquake, 1819. R. D. O., *M*, XLVI, 110; aftershocks, 116, 117.
- Porenaumla (Poramamilla), *Cuddapah* (57 I/16; 15° 0' 30": 78° 59' 30"), quartzites, Kistna series. W. K., *M*, VIII, 244.
- Poreyghat, *Ohhindwara* (55 K/14; 21° 32': 78° 55'), calciphyre. P. N. D., *R*, XXXIII, 223.
- Pori, *Raigarh* (64 N/4; 22° 12': 83° 4'), coal seam. V. B., *R*, XV, 118.
- Pori, *Rewah* (63 H/11; 24° 15': 81° 41'), Bijawar limestone. R. D. O., *M*, XXXI, 121.
- Poriharpur, *Burdwan* (73 M/2; 23° 42' 30": 87° 2' 30"), coal seam. R. R. S., *M*, XLI, 46=Puriharpur.
- Porlob I., *Andamans* (86 D/15; 12° 23': 92° 53'), jasper beds. E. R. G., *R*, LIX, 215.
- Porohla (Parola), *Tehri* (53 J/1; 30° 52' 30": 78° 5'), Bawar quartzites. C. S. M., *R*, XX, 28.
- Porse, *Chanda* (56 M/10; 19° 31': 79° 35' 30"), Maleri red clays. T. O., *R*, IV, 74; T. W. H. H., *M*, XIII, 82, 84; W. K., *R*, XIII, 22.
- Porsegaundanpalayam, *Coimbatore* (58 E/5; 11° 53' 30": 77° 17'), gold mine. H. H. H., *M*, XXXIII, pt. 2, 60, 66.
- Port Blair, *Andamans* (87 A/10; 11° 41': 92° 43'), mineral resources. F. R. M., *R*, XVII, 79; earthquake, December, 1881. R. D. O., *R*, XVII, 48; Tertiary beds. XVIII, 137.
- Porto Novo, *S. Arcot* (58 M/15; 11° 30': 79° 45' 30"), iron works. T. H. H., *R*, XXXIX, 101.
- Porur, *Malabar* (58 A/4; 11° 9' 30": 76° 15'), iron-ore. P. L., *M*, XXIV, 228, 237.
- Poser, *Chanda* (65 A/1; 19° 56': 80° 9'), hematite. H. H. H., *R*, XLII, 71.
- Poshgar, Poshkar, *Kashmir* (43 J/12; 34° 1' 30": 74° 30' 30"), Panjal traps. R. L., *R*, XI, 38; geodetic station. R. D. O., *M*, XLII, 260.
- Poshiana, *Punch* (43 K/6; 33° 37': 74° 29'), Gondwana boundary. D. N. W., *M*, LI, 315.
- Posina (N.), *Idar* (45 H/3; 24° 22': 73° 2'), amphibolite limestone. C. S. M., *M*, XLIV, 49.
- Posina (S.), *Idar* (46 E/1; 23° 45' 30": 73° 7'), quartz-porphyry. C. S. M., *M*, XLIV, 84.
- Posugyi, *Henaada* (85 N/4; 18° 10': 96° 5'), coal seam. M. S., *R*, XLI, 255; R. R. S., *M*, XLI, 64=Pooosogyee.
- Potanga, *Hazaribagh* (73 E/6; 23° 43': 85° 17'), coal and iron-ore. T. W. H. H., *M*, VII, 329.
- Potenda, *Rewah* (63 D/14; 24° 37': 80° 57'), geodetic station. R. D. O., *M*, XLII, 213.
- Pothakamur, *Nellore* (57 M/14; 15° 44' 30": 79° 48'), felsite veins in gneiss. R. B. F., *M*, XVI, 44.
- Pothi, *Punch* (43 G/10; 33° 38': 73° 43'), fault. D. N. W., *M*, LI, 326.
- Poting glacier, *Almora* (62 B/4; 30° 14': 80° 6'), survey. G. C., *R*, XXXV, 186 (Pls. lviii, lix, & lxx); J. L. G., *R*, XLII, 103 (Pls. xix-xvi).



- Potoli, *N. Kanara* (48 I/12; 15° 11': 74° 33'), manganese-ore. E. H. P., R, LX, 47.
- Poung, *Amherst* (94 L/12; 18° 13': 98° 43'), hot spring, saline. T. O., M, XIX, 152.
- Powagurh hill, *Panch Mahals* (46 F/11; 22° 28': 73° 31'), trap flows. W. T. B., M, VI, 343=Pavagad hill.
- Powtrum (Pavittram), *Trichinopoly* (58 I/8; 11° 8' 30": 78° 22'), magnesite. W. K., M, IV, 320.
- Pozug (Bukuk), *Persia* (31 C/1; 25° 56' 30": 60° 11'), Eocene beds with igneous intrusions. G. H. T., R, LIII, 64; G. E. P., M, XLVIII, pt. 2, 102.
- Prachnab Kirikan, *Siam* (96 M/13; 11° 48': 99° 48'), granite. E. H. P., R, LV, 31.
- Prada, *Spiti* (58 E/13; 31° 50': 77° 58'), Ordovician syncline. H. H. H., M, XXXVI, 23.
- Praslung, *Kashmir* (43 N/8; 34° 4': 75° 22'), Panjal slates. R. L., R, XI, 44; glaciation of gorge. J. L. G., M, XLIX, 322-328 (Pls. xvi, xxix & xxxii).
- Pratapgad, *Satara* (47 G/9; 17° 50': 73° 35'), manganiferous lava. L. L. F., M, XXXVII, 663 (note).
- Proia, *Idar* (45 H/4; 24° 3': 73° 5'), calc-gneiss. C. S. M., M, XLIV, 16 (Pl. viii, fig. 6); diorite-aplite, 39 (Pl. x, figs. 5, 6).
- Prome, *Burma* (85 N/1; 18° 49': 95° 13'), high-level gravels. W. T., M, X, 241; Prome beds, section, 271; building sites. E. H. P., R, LXIII, 33; water-supply, 58; earthquakes: Burma, 1912. J. C. B., M, XLII, 70; Srīmangal, 1918. M. S., M, XLVI, 34; Pegu, 1930. J. C. B., R, LXV, 239.
- Protheroeypur, *Andamans* (87 A/10; 11° 37': 92° 45'), limestone. F. R. M., R, XVII, 85.
- Prumu (Phrumbu), *Kashmir* (43 O/6; 33° 30' 30": 75° 23'), Silurian-Trias sequence. H. H. H., R, XLIII, 38.
- Puari, *Bashahr* (58 I/6; 31° 33': 78° 17'), hot spring. T. O., M, XIX, 122.
- Pabbi, *Gujrat* (43 H/9; 32° 48': 73° 42'), Siwalik beds. W. T., R, VIII, 46 =Pabbi.
- Pubnah, *Bengal* (78 H/4; 24° 0': 89° 15'), Cachar earthquake, 1869. T. O., M, XIX, 32=Pabna.
- Puchamee, *Birbhum* (72 P/12; 24° 4' 30": 87° 36' 30"), iron-ore, assay. V. B., M, XIII, 248.
- Puchmurri, *Hoshangabad* (55 J/7; 22° 28': 78° 26'), Mahadeva escarpment. J. G. M., M, II, 164 (Pl. iv)=Pachmari.
- Puchunda, *Hazaribagh* (73 E/2; 23° 42' 30": 85° 12'), striated boulders in Talchirs. A. J., M, LII, 15.
- Pudi, *Chittoor* (57 O/10; 13° 33': 79° 31'), trap dykes. R. B. F., R, XII, 196; W. K., M, XVI, 129.
- Pudin, *Persia* (25 E/2; 27° 37': 57° 5' 30"), Hatat series, Archæan. G. E. P., M, XLVIII, pt. 2, 5, 65; Oman series, 11.
- Pudukotai, *Madras* (58 J/15; 10° 23': 78° 49'), geology of State. R. B. F., R, XII, 141 (Pl. viii); lateritic conglomerate, 153.
- P'ueh Fu, *Yunnan* (102 E/4; 23° 4'; 101° 4'), Permian limestone. J. C. B., R, LIV, 319.

- Puga, *Ladakh* (52 K/8; 33° 14' : 78° 22'), epidote-rock. F. S., *M*, V, 128; hot springs and sulphur mines. F. R. M., *M*, V, 162; T. O., *M*, XIX, 127; R. L., *M*, XXII, 44, 333; igneous rocks, petrology. C. A. M., *R*, XIX, 115; *M*, XXXI, 310, 319, 325.
- Pugar, *Hazaribagh* (73 E/1; 23° 53' : 85° 5'), Barakar grits and Ironstone shales. A. J., *M*, LII, 36.
- Puger, *Chamba* (52 D/6; 32° 30' : 76° 21'), Blaini limestone (f). C. A. M., *R*, XVIII, 89.
- Puggalavandy (Pagalavadi), *Trichinopoly* (58 I/12; 11° 5' : 78° 36'), bedded gneiss. W. K., *M*, IV, 308.
- Puging, *Abor Hills* (82 L/14; 28° 44' : 94° 57'), metamorphic rocks. J. C. B., *R*, XLII, 250.
- Pugyi, *Insein* (94 C/4; 17° 14' 30" : 96° 1'), reservoir-site. L. L. F., *R*, LXV, 41.
- Puhal, *Persia* (18 M/12; 27° 0' : 55° 45'), overthrust, Hormuz-Fars series. G. E. P., *M*, XLVIII, pt. 2, 46.
- Puhara, *Hazaribagh* (73 E/1; 23° 54' 30" : 85° 8'), burnt coal outcrop. A. J., *M*, LII, 31.
- Puharee, *Banda* (63 C/15; 25° 19' : 80° 46'), laterite. H. B. M., *M*, II, 83.
- Pulamsunda, *Garkwal* (53 M/3; 31° 18' : 79° 8'), Haimanta beds. C. L. G., *M*, XXIII, 199 (fig.).
- Puliarpatti, *Ramnad* (58 J/12; 10° 7' : 78° 40'), quarries, banded gneiss. R. B. F., *R*, XII, 143, 157; *M*, XX, 100.
- Pulicat, *Chingleput* (66 C/7; 13° 25' : 80° 19'), sand dunes. R. B. F., *M*, X, 12; Cutch earthquake, 1819. R. D. O., *M*, XLVI, 115.
- Palkohapaliam, *S. Arcot* (57 P/16; 12° 2' : 79° 45' 30"), Cretaceous beds. H. W., *R*, XXVIII, 16.
- Pul-i-Charkhi, *Afghanistan* (38 F/6; 34° 32' 30" : 69° 21'), Khingil limestone. H. H. H., *M*, XXXIX, 45.
- Pul-i-Khatan, *Persia* (29 E/1; 35° 58' : 61° 6'), Cretaceous beds. C. L. G., *R*, XIX, 63, 252.
- Puliman Kulam, *Tinnerelly* (58 H/15; 8° 17' : 77° 50'), sub-recent limestone. R. B. F., *M*, XX, 62.
- Pulicor (Kil Pulaiyur), *Trichinopoly* (58 I/15; 11° 18' : 78° 58'), trap dyke. W. K., *M*, IV, 329; olivine in trap, 334.
- Pulkos hill, *Bijawar* (54 P/14; 24° 35' : 79° 49'), Semri (L. Vindhyan) series. H. B. M., *M*, II, 10, 21; Kaimur conglomerate. F. R. M., *M*, VII, 55.
- Pullasee, *Dhar* (55 B/6; 22° 33' : 76° 26'), columnar trap. W. T. B., *M*, VI, 261.
- Pullasi, *Nimar* (55 B/12; 22° 19' 30" : 76° 35'), Vindhyan beds, sections. J. G. M., *M*, II, 139, 243 (fig.); W. T. B., *M*, VI, 253 (fig.).
- Pallayaputty (Pillaiyarpatti), *Tanjore* (58 N/2; 10° 44' 30" : 79° 5'), pot-holes in Cuddalore grits. W. K., *M*, IV, 259.
- Puliyar (Farur), *S. Arcot* (58 M/8; 11° 34' 30" : 79° 15' 30"), Ariyalur beds, fossils. H. F. B., *M*, IV, 145; Cuddalore sandstones, outlier, 170.
- Palkyputty, *Salem* (58 I/2; 11° 44' : 75° 9'), ultra-basic rock. W. K., *M*, IV, 318.
- Pulo Bada, *Mergui* (96 J/2; 10° 30' : 98° 13'), tin-ore. E. H. P., *M*, LIX, 52.
- Pulo Kamat, *Mergui* (96 I/12; 11° 0' 30" : 95° 36' 30"), granodiorite. E. H. P., *R*, LVIII, 51.

- Palsora, *Ballam* (46 I/15; 23° 20': 74° 56' 30"), meteorite. J. O. B., **M**, XLIII, 254.
- Punasan, *Idar* (46 E/2; 23° 40': 73° 11'), Delhi quartzite. C. S. M., **M**, XLIV, 87.
- Punassa, *Nimar* (55 B/8; 22° 14': 76° 23' 30"), Lameta and Intertrappean beds. P. N. B., **M**, XXI, 44, 45, 63=Poonassa.
- Pundengru, *Garo Hills* (78 K/15; 25° 18': 90° 54'), earthquake, 1897, landslips. R. D. O., **M**, XXIX, 117.
- Pundih, *Surguja* (84 I/16; 23° 12' 30": 82° 55' 30"), Talchur-Barakar boundary. V. B., **R**, VI, 30.
- Pundoah hill, *Bijawar* (54 P/10; 24° 38': 79° 45'), Bijawar rocks. H. B. M., **M**, II, 37; lavas and ash beds, 76.
- Pundoli, *Keonjhar* (73 F/8; 22° 2': 85° 16' 30"), manganese-ore. L. L. F., **R**, LXV, 56.
- Pundua, *Palamau* (72 D/4; 24° 10': 84° 4'), coal seam. T. D. L., **R**, XXIV, 143 =Pandua.
- Pung Jum, *Hukawng* (92 F/4; 26° 7': 97° 4'), brine spring. L. L. F., **R**, LXV, 63.
- Punga, *Sibi* (34 N/12; 30° 11': 67° 45'), Eocene beds. C. L. G., **R**, XXVI, 135, 139.
- Pungadi, *Kistna* (65 G/12; 17° 1': 81° 39'), Infra- and Intertrappean beds, fauna. W. K., **M**, XVI, 232; Cuddalore sandstones, 251.
- Pungin Kha, *Myitkyina* (92 G/5; 25° 45': 97° 24'), spinel and ? ruby. C. L. G., **R**, XXV, 130; serpentine. M. S., **R**, LIV, 405=Hpungin Hka.
- Pungrung, *Almora* (62 B/11; 30° 23': 80° 31'), Permo-Triassic syncline. C. L. G., **M**, XXIII, 182.
- Pungyi, *Thayetmyo* (85 I/15; 19° 27': 94° 55'), L. Pegu shales. E. H. P., **R**, LVI, 40.
- Puniar (Panniar), *Gwalior* (54 J/4; 26° 6': 78° 2'), trap flow. C. A. H., **R**, III, 38.
- Punkung-ford, *Naga Hills* (83 J/13; 26° 46': 94° 58'), coal outcrops. H. H. H., **R**, XL, 306 (Pl. xlviii).
- Punna, *Bundelkhand* (63 D/2; 24° 43': 80° 11'), diamond mines. H. B. M., **M**, II, 65=Panna.
- Punnar, *Sirmur* (53 F/5; 30° 45' 30": 77° 25' 30"), penninite. G. E. P., **M**, LIII, 71; recumbent folding in Jutogh series, 78.
- Punnara, *Ohhindwara* (55 J/12; 22° 12' 30": 78° 33'), coal seam. E. J. J., **M**, XXIV, 37=Panara.
- Punri (Punadi), *Outch* (41 E/12; 23° 1': 69° 30'), earthquake, 1819. R. D. O., **M**, XLVI, 108.
- Punrutti (Panruti), *S. Arcot* (58 M/9; 11° 46': 79° 33'), red soil, analysis, H. F. B., **M**, IV, 185; pottery clay, 213=Panurutti.
- Punagodu, *Nellore* (57 M/11; 15° 25': 79° 35'), crystalline limestone. R. B. F., **M**, XVI, 24.
- Punur, *Guntur* (66 A/1; 15° 57': 80° 10' 30"), Rajmahal beds, ossils. R. B. F., **M**, XVI, 75.
- Punwaree hill, *Banda* (63 C/16; 25° 9': 80° 55'), Semri (L. Viadhyan) beds. H. B. M., **M**, II, 13.
- Pu-piao, *Yunnan* (92 O/4; 25° 2' 30": 99° 1' 30"), Ordovician fossils. J. C. B., **R**, XLIII, 327; XLVII, 220; hot spring, 234.

- Pu-pung, Yunnan (101 C/15; 25° 21' : 100° 52'), Permo-Triassic beds. J. C. B., **R**, LIV, 88.
- Puragil (Porikkal), *N. Arcot* (57 P/4; 12° 3' : 79° 10'), pseudo-conglomeratic gneiss, W. K., **M**, IV, 301.
- Puraini, *Hamirpur* (54 O/13; 25° 45' : 79° 46'), selenite. T. D. L., **R**, XXXVII, 283.
- Purana Chaibasa, *Singbhum* (73 F/14; 22° 32' : 85° 47'), manganese-ore. L. L. F., **M**, XXXVII, 618.
- Puraway (Paravay), *Trichinopoly* (58 M/3; 11° 17' 30" : 79° 3'), coral reef limestone. H. F. B., **M**, IV, 59; Utatur fossils, 94.
- Purbasthali, *Burdwan* (79 A/7; 23° 27' : 88° 20'), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 324.
- Purda, *Manbhum* (73 J/9; 22° 58' : 86° 35'), dolomitic limestone. V. B., **R**, X, 152=Poordah.
- Puriang, *Khasi Hills* (83 C/2; 25° 32' : 92° 6'), mica-schist, Shillong series. P. N. B., **A. R.**, 1901, 23.
- Puriharpur, *Burdwan* (73 M/2; 23° 42' 30" : 87° 2' 30"), coal seam. W. T. B., **M**, III, 104=Poriharpur.
- Purkapah, *Gangpur* (73 B/8; 22° 10' 30" : 84° 23' 30"), dolomite and calc-schist. L. L. F., **R**, LXV, 73.
- Purkumchairy (Parukkancheri), *S. Arcot* (58 I/13; 11° 58' 30" : 78° 45' 30"), iron-ore bed. W. K., **M**, IV, 293.
- Purnapani, *Gangpur* (73 B/15; 22° 15' 30" : 84° 51'), limestone. H. C. J., **R**, LVII, 150.
- Purneah, *Bihar* (72 O/9; 25° 48' : 87° 30'), Cachar earthquake, 1869. T. O., **M**, XIX, 32; Srimangal earthquake, 1918. M. S., **M**, XLVI, 29.
- Purongo, *Angul* (73 H/1; 20° 52' : 85° 2'), 'tessellated' sandstone, Talchir. W. T. B., **M**, I, 51 (fig.); annelid tracks, 52 (Pl. i, fig. 1).
- Purri, *Athock* (43 C/2; 33° 40' : 72° 1' 30"), 'erratic'. A. B. W., **R**, X, 124 =Pari (N.).
- Purumella Peak (Karumalai), *Malabar* (58 A/8; 11° 4' : 76° 29'), felsite. P. L., **M**, XXIV, 216.
- Pumhottampur, *Birbhum* (73 M/10; 23° 37' : 87° 38'), Raniganj coal measures. E. H. P., **R**, LXII, 142.
- Purshottapur, *Ganjam* (74 A/14; 19° 31' : 84° 53' 30"), crystalline limestone. F. H. S., **A. R.**, 1900, 155.
- Purtabpur, *Allahabad* (63 G/11; 25° 17' : 81° 33'), sandstone quarries. F. R. M., **M**, VII, 117; V. B., **R**, VII, 116.
- Pusathanpur (Purushottampur), *Burdwan* (73 I/14; 23° 40' : 86° 54' 30"), Panchet beds, section. W. T. B., **M**, III, 130.
- Puseli, *N. Kanara* (48 I/11; 15° 19' 30" : 74° 32'), manganite ?. L. L. F., **M**, XXXVII, 85, 650.
- Pushtiwari, *Chagai* (30 O/12; 29° 11' : 63° 36'), quartz-diorite, petrology. E. V., **M**, XXXI, 245.
- Pusimalaikuppam, *N. Arcot* (57 P/1; 12° 45' 30" : 79° 15'), novite. E. H. P., **R**, LXI, 123; LXIII, 125.
- Pusoora, *Cutch* (41 I/4; 23° 14' : 70° 11'), pisolitic conglomerate, U. Tertiary. A. B. W., **M**, IX, 140.

- Putadand, *Korea* (84 I/3; 23° 20': 82° 14' 30"), coal seams. L. L. F., **M**, **XLI**, 193, 220.
- Putao, *Myittha* (92 E/7; 27° 21': 97° 24'), plain. M. S., **R**, **L**, 245.
- Putchum I., *Quich* (41 E/13; 23° 50': 69° 50'), geology. A. B. W., **M**, **IX**, 99 = Pachham I.
- Pute (Pote), *Amherst* (94 L/5; 16° 49': 98° 21'), oil shales. G. C., **R**, **LV**, 297.
- Putehpura, *Bundi* (45 O/14; 25° 36': 75° 59'), fault. A. L. C., **R**, **LX**, 187.
- Puthankot, *Gurdaspur* (43 P/11; 32° 16' 30": 75° 39'), Siwalik beds. H. B. M., **M**, **III**, pt. 2, 144 = Pathankot.
- Puthiar, *Kangra* (52 D/8; 32° 8': 76° 25'), Siwalik boundary. H. B. M., **M**, **III**, pt. 2, 148.
- Putletto, *Tavoy* (95 J/8; 14° 4': 98° 30'), bismuth. J. C. B., **M**, **XLIV**, 219; wolfram mine, 299.
- Putrounda hill, *Banda* (63 C/16; 25° 13': 80° 50'), L. Vindhyan (Semri) beds. H. B. M., **M**, **II**, 16.
- Puttoocautainoodicaud (Pattakkudisal), *Trichinopoly* (58 M/4; 11° 4': 79° 12' 30"), 'red soil', analysis. H. F. B., **M**, **IV**, 197.
- Putulpir, *Kharsawan* (73 F/13; 22° 45': 85° 45' 30"), chlorite-talc-schist. J. A. D., **M**, **LIV**, 116.
- Puturia (Patharia), *Saugor* (55 M/1; 23° 55': 79° 12'), Doocan trap. H. B. M., **M**, **II**, 77; freshwater limestone, Lameta, 78.
- Pwehla, *S. Shan States* (93 D/9; 20° 51': 96° 41'), coal seam. E. J. J., **R**, **XX**, 189; R. R. S., **M**, **XXI**, 69; analysis. G. S. L., **R**, **XXVI**, 108; Thamakan limestone. C. S. M., **A. R.**, 1900, 141 = Poila.
- Pwinbyu, *Minbu* (84 L/11; 20° 22': 94° 39'), Burma earthquake, 1912. J. C. B., **M**, **XLII**, 63.
- Pyade, *Ramri I.* (85 E/11; 19° 21': 93° 34'), Nummulitic limestone. E. H. P., **M**, **XL**, 183; gas pools, 192, 193.
- Pyagawpu, *Salween*, (94 F/3; 18° 20': 97° 7'), Chaung Magyi series. E. L. C., **R**, **LX**, 296; Plateau Limestone, 298.
- Pyalo, *Thayemyo* (85 M/4; 19° 9': 95° 11'), mud volcanoes. E. H. P., **M**, **XL**, 173.
- Pyanoor (Palayanuru), *Chittoor* (57 O/16; 13° 7': 79° 47'), boulder bed, Sripermatar series. R. B. F., **M**, **X**, 95.
- Pyapon, *Burma* (85 P/11; 16° 17': 95° 41'), Pegu earthquake, 1930. J. C. B., **R**, **LXV**, 237.
- Pyatgale, *Pakokku* (84 L/5; 20° 51': 94° 15' 30"), Tertiary gastropoda. E. V., **R**, **LIV**, 244.
- Pyauंगाung, *N. Shan States* (93 B/15; 22° 28': 96° 58'), Burma earthquake, 1912. J. C. B., **M**, **XLII**, 35 = Pyoung-goung.
- Pyaw, *Shwebo* (84 J/13; 22° 55': 94° 52'), alluvial gold. E. H. P., **R**, **LXIII**, 36.
- Pyawbwe, *Minbu* (84 L/12; 20° 1': 94° 38'), Pegu series, thickness. E. H. P., **M**, **XL**, 23.
- Pyawbwe, *Yamethin* (93 D/2; 20° 35': 96° 3'), Burma earthquake, 1912. J. C. B., **M**, **XLII**, 54; metamorphic rocks. **R**, **LVI**, 80.
- Pyazi, *Yamethin* (84 P/15; 20° 17': 95° 57' 30"), Pegu fossils. E. H. P., **R**, **LIX**, 75.

- Pyengma (Pyinma) chaung, *Bassein* (85 L/8; 16° 12': 94° 23'), Nummulitic series. M. S., R., XLI, 248.
- Pyeng-mah-chaung, *Tharrawaddy* (85 N/14; 18° 38' 30": 95° 46'), brine spring. W. T., R., VI, 68.
- Pyinmana, *Yamethin* (94 A/2; 19° 44': 96° 13'), earthquake, 1897. R. D. O., R., XXX, 252; Burma earthquake, 1912. J. C. B., M., XLII, 54; older alluvium. E. H. P., R., LVIII, 46.
- Pyinma-ngu, *Pegu* (94 C/8; 17° 10': 96° 24'), dam-site. E. H. P., R., LXII, 45.
- Pyinyaung, *Pyinyaung, Meiktila* (93 D/5; 20° 49': 96° 24'), Plateau limestone. C. S. M., A. R., 1900, 133; Rhætic-Jurassic beds. E. H. P., R., LVIII, 43.
- Pyintha, *Pyinsa, Mandalay* (93 C/5; 21° 52': 96° 22'), Silurian limestone. F. N., R., XXIV, 104; graptolite beds. T. D. L., A. R., 1900, 90; M., XXXIX, pt. 2, 168.
- Pyit (Takpiu) Wang, *Putao* (92 E/9; 27° 48': 97° 44'), lead mine. M. S., R., I, 249.
- Pykara, *Nilgiri* (58 A/11; 11° 28': 76° 36'), banded gneiss. H. F. B., M., I, 223 (fig.) alluvium, 242 (fig.).
- Pylum (Puduvalavu), *Salem* (58 I/7; 11° 22': 78° 20'), iron-ore. W. K., M., IV, 287.
- Pyoung-goung, *N. Shan States* (93 B/15; 22° 28': 96° 58'), Plateau limestone. P. N. D., A. R., 1900, 113=Pyanggaung.
- Pysunnee (Paisuni) R., *Banda* (63 C/15; 25° 20': 80° 55'), Vindhyan beds. H. B. M., M., II, 22.
- Pythoormullay (Paitturmalai), *Salem* (58 I/10; 11° 32': 78° 33'), iron-ore beds. W. K., M., IV, 294; trap dykes, 330. \*
- Pyton, *Aurangabad* (47 M/7; 19° 28': 75° 23'), vertebrate fossils. W. T. B., R., I, 61=Paitan.
- Pyu, *Toungoo* (94 B/7; 18° 29': 96° 26'), Burma earthquakes, 1912. J. C. B., M., XLII, 67, 122; earthquake, December, 1930. R., LXV, 267; water-supply. E. H. P., R., LXIII, 58.
- Pyugan, *Thayetmyo* (85 I/11; 19° 23': 94° 39'), nummulitic limestone. G. C., R., XLI, 322.
- Pyuntara *Pegu* (94 C/9; 17° 52': 96° 43'), earthquake, 1930. J. C. B., R., LXV, 236.
- Qais I., *Persian Gulf* (18 F/14; 26° 32': 53° 58'), sub-recent conglomerate. G. E. P., M., XXXIV, pt. 4, 142.
- Qaiyarah, *Iraq* (35° 49': 43° 19'), petroleum. E. H. P., M., XLVIII, 17 (Pl. iii).
- Qarah Tappah (Kara Tepe), *Iraq* (2 B/15; 34° 23': 44° 55'), anticline, Kurd series. E. H. P., M., XLVIII, 64 (Pl. x).
- Qarnain I., *Persian Gulf* (18 D/13; 24° 56': 52° 52'), Hormuz series. G. E. P., M., XXXIV, pt. 4, 143.
- Qaru I., *Persian Gulf* (10 D/13; 28° 48': 48° 47'), littoral concrete. G. E. P., M., XXXIV, pt. 4, 143.
- Qishlah, *Iraq* (35° 52' 30": 43° 8'), bitumen and sulphur. E. H. P., M., XLVIII, 23.
- Qishm I., *Persian Gulf* (18 N/N. E.; 26° 45': 55° 45'), Miocene fauna. G. E. P., M., XXXIV, pt. 4, 41-44; geology, 125 (fig.); XLVIII, pt. 2, 31.

- Qran I., *Persian Gulf* (11 E/14; 27° 40' : 49° 48'), littoral concrete. G. E. P., **M**, XXXIV, pt. 4, 143.
- Quenggouk (Kwingauk), *Bassein* (85 L/9; 17° 0' : 94° 43'), meteorite. J. C. B., **M**, XLIII, 255.
- Quetta, *Baluchistan* (34 N/4; 30° 12' : 67° 1'), Cretaceous beds, sections. C. L. G., **M**, XVIII, 36 (figs. & Pl. iv); Siwalik beds. W. T. B., **M**, XX, 166; geology of neighbourhood, 179; Artesian springs and wells. R. D. O., **R**, XXV, 44, 48, 52; E. V., **M**, XXXII, 24; hydro-electric project. E. H. P., **R**, LVIII, 25.
- Quilon, *Travancore* (58 D/9; 8° 53' : 76° 35'), Warkalli beds, lignite. W. K., **R**, XV, 92, 93; R. B. F., **R**, XVI, 26; R. R. S., **M**, XLI, 103; fossiliferous beds, ? Miocene. W. K., **R**, XV, 95; H. B. M., **R**, XVII, 9; E. V., **R**, XXXVI, 321.
- Quilong (Guilong), *N. Cachar* (83 G/3; 25° 17' 30" : 93° 15'), travertine. T. D. L., **R**, XVI, 203.
- Quoins Is., *Persian Gulf* (25 B/11; 20° 30' : 56° 31'), limestone, ? Triassic. G. E. P., **M**, XXXIV, pt. 4, 141.
- Quwair, *Iraq* (36° 3' : 43° 30' 30"), oil seepages. E. H. P., **M**, XLVIII, 37 (Pl. iv).
- Rabat (Robat), *Dir* (38 N/13; 34° 52' : 71° 57'), igneous rocks. H. H. H., **R**, XLV, 276.
- Rabkob, *Udaipur*, C. P. (64 N/3; 22° 28' : 83° 13'), Talchir beds. V. B., **R**, XV, 113; alluvial gold. J. M. M., **R**, XXXI, 61=Rakhob.
- Rabo, *Ranchi* (73 F/9; 22° 56' 30" : 85° 35'), piedmontite-phyllite. J. A. D., **M**, LIV, 41 (Pl. x, fig. 1).
- Rachotee (Rayachoti), *Cuddapah* (57 J/16; 14° 3' 30" : 78° 45'), sectional contour. W. K., **M**, VIII, 25 (fig.).
- Radak, *Larkhana* (35 N/16; 26° 11' 30" : 67° 48' 30"), Nari series, mollusca. E. V., **M**, L, 7, 431, 453.
- Radapuram, *Tinnevely* (58 H/11; 8° 16' : 77° 41' 30"), lateritic conglomerate. R. B. F., **M**, XX, 54; travertine, 78.
- Radhana, *Jodhpur* (40 K/13; 25° 52' : 70° 58'), eurite dykes in granite. T. D. L., **M**, XXXV, 77.
- Radhanagri, *Kolhapur* (47 L/3; 16° 25' : 74° 0'), bauxite. H. C. J., **R**, LIV, 421 =Valivda.
- Rae Bareli, *United Provinces* (63 F/4; 26° 14' : 81° 14'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 246.
- Raewala, *Dehra Dun* (53 J/4; 30° 1' : 78° 14'), flexure in Siwalik beds. H. B. M., **M**, III, pt. 2, 124=Raiwala.
- Raga, *Spiti* (52 L/4; 32° 3' : 78° 1' 30"), Ladinic fossils. A. K., **A. R.**, 1900, 209 =Kaga.
- Ragani, *Sibi* (34 N/16; 30° 10' : 67° 48' 30"), coal seams. C. L. G., **R**, XXVI, 140 =Rajani.
- Ragavapur, *Kistna* (65 D/5; 16° 45' 30" : 80° 19'), Cuddapah quartzites. R. B. F., **R**, XVIII, 20.
- Ragavapuram, *Kistna* (65 G/8; 17° 2' : 81° 19'), Kamthi sandstones. W. T. B., **R**, V, 27; U. Gondwana shales, fossils. W. K., **R**, X, 57; **M**, XVI, 218.
- Ragha Sir, *D. I. Khan* (39 I/2; 31° 37' : 70° 3'), limestone breccia, ? Siwalik. T. D. L., **R**, XXVI, 91.

- Raghudavapuram, *Godavari* (65 G/12; 17° 10': 81° 42' 30"), U. Gondwana sandstone. T. H. H., **R**, XXXII, 158.
- Raghunath Bati, *Burdwan* (73 I/14; 23° 43' 30": 86° 55' 30"), coal seam. R. R. S., **M**, XLI, 45.
- Raghunathohak, *Burdwan* (73 M/2; 23° 35': 87° 6' 30"), coal seam. R. R. S., **M**, XLI, 46=Rogonathohuk.
- Raghunathpur, *Saraikela* (73 F/13; 22° 47': 85° 59'), kaolin. E. H. P., **R**, LVI, 30; J. A. D., **M**, LIV, 164.
- Ragikalyadikinakeri Bhani Nagalagutti, *Shimoga* (48 O/13; 13° 48': 75° 46'), manganese-ore. L. L. F., **M**, XXXVII, 1151.
- Ragonathgarh, *Jaipur* (45 M/6; 27° 39' 30": 75° 21'), passage beds, Alwar-Ajabgarh series. A. M. H., **R**, LIV, 375; iron-ore, 388; freestone quarries, 392.
- Ragonathpur, *Gwalior* (54 J/8; 26° 4': 78° 17' 30"), galena. T. D. L., **R**, XL, 113.
- Ragunadhapuram, *Warangal* (65 C/3; 17° 17': 80° 12'), Cuddapah limestone. R. B. F., **R**, XVIII, 22.
- Ragundla (Regula), *Warangal* (65 C/10; 17° 37': 80° 38'), quartzite implements. W. T. B., **R**, V, 25.
- Ragwar, *Rewah* (63 L/3; 24° 22': 82° 10'), Red Shale series. R. D. O., **M**, XXXI, 130.
- Rahdar (E.), *Persia* (25 E/2; 27° 37': 57° 8'), hippuritic limestone. G. E. P., **M**, XLVIII, pt. 2, 62; Pleistocene beds, 112.
- Rahdar (W.), *Persia* (10 O/10; 29° 43': 51° 31' 30"), Fars-Bakhtiyari boundary. G. E. P., **M**, XXXIV, pt. 4, 70.
- Baherda, *Amjhera* (46 J/15; 22° 22' 30": 74° 55'), Cretaceous echinoidea. P. M. D., **R**, XX, 90, 92.
- Rahim-ki-Bazar, *Thar Parkar* (40 H/3; 24° 19': 69° 9'), flooded area, Cutch earthquake, 1819. R. D. O., **M**, XLVI, 95.
- Rahuja, *Karachi* (35 O/11; 25° 25': 67° 30' 30"), Gaj-Nari beds, section. W. T. B., **M**, XVII, 168 (fig.).
- Rahum, *Hazaribagh* (73 E/1; 23° 49' 30": 85° 1'), Raniganj-Panchet series, section. A. J., **M**, LII, 134.
- Rai, *Almora* (62 C/2; 29° 43': 80° 3'), copper-ore. A. W. L., **R**, II, 87.
- Rajala (Rela) Gadh, *Almora* (53 O/16; 29° 9': 79° 57'), distorted pebbles in Siwalik conglomerate. C. S. M., **R**, XXII, 68 (Pl. iii); **M**, XXIV, 163.
- Rajalo (Rayanhala), *Jaipur* (54 A/4; 27° 5': 76° 13'), quartzite and limestone. C. A. H., **R**, X, 85; A. M. H., **M**, XLV, 23, 26, 125; steatite. F. R. M., **R**, XXII, 65; hematite. H. H. H., **R**, XLIII, 19.
- Raibagh, *Kolhapur* (47 L/15; 16° 29': 74° 46' 30"), saltpetre. H. C. J., **R**, LIV, 430.
- Raibah, *Khasi Hills* (78 O/7; 25° 15': 91° 26'), dolerite dyke. R. W. P., **R**, LV, 154; ash bed, Sylhet trap, 158.
- Raibedi, *Mayurbhanj* (73 J/3; 22° 27' 30": 86° 2'), mica. P. N. B., **R**, XXXI, 171.
- Raichur, *Hyderabad* (56 H/8; 16° 12': 77° 21'), granitoid gneiss. R. B. F., **M**, XII, 41.
- Raida Buru, *Singhbhum* (73 F/6; 22° 38': 85° 16'), shearing in epidiorite. J. A. D., **M**, LIV, 78.
- Raidak B., *Bhutan* (78 E/9; 26° 46': 89° 43'), graphitic quartz-schist. F. R. M., **M**, XI, 37; Assam gneiss, 44.



- Raidooria, *Bewah* (63 H/7; 24° 17' : 81° 23'), Kheinjua quartzite. P. N. D., **M**, XXXI, 149.
- Raie, *Ranchi* (73 E/2; 23° 41' : 85° 3'), Talchir beds, section. A. J., **M**, LII, 17; Karharbari beds, 22; coal seams, 67.
- Raigara, *Singbhum* (73 F/6; 22° 42' : 85° 23' 30"), serpentinite. J. M. M., **R**, XXXI, 72; talcose epidiorite. J. A. D., **M**, LIV, 88.
- Raigarh, *Central Provinces* (64 O/5; 21° 54' : 83° 24'), coalfield. V. B., **R**, IV, 101; VIII, 102 (Pl. iv); Vindhyan limestone and shales. W. K., **R**, XVIII, 185.
- Raighad, *Idar* (46 E/2; 23° 36' : 73° 11'), Delhi quartzite. C. S. M., **M**, XLIV, 89.
- Raigudem, *Warangal* (65 C/14; 17° 37' 30" : 80° 56'), Kamthi sandstones. W. T. B., **R**, V, 23; borings for coal. W. K., **M**, XVIII, 194=Ryagoodium.
- Raijama Buru, *Kharsawan* (73 F/13; 22° 52' : 85° 50'), folding in Iron Ore series. J. A. D., **M**, LIV, 43; andalusite, 152.
- Railu, *Sirmur* (53 F/6; 30° 41' : 77° 24' 30"), Blaini conglomerate. H. B. M., **M**, III, pt. 2, 44.
- Raimatang R., *Jalpaiguri* (78 F/10; 26° 43' : 89° 30'), jasper bands in dolomite. F. R. M., **M**, XI, 36.
- Rainda, *Gangpur* (64 O/13; 21° 54' 30" : 83° 58' 30"), brecciated quartz. L. L. F., **R**, LXV, 75.
- Raini, *Ohhindwara* (55 J/12; 22° 5' : 78° 42'), granite batholith. C. S. M., **R**, XLV, 129.
- Raipur, *Central Provinces* (64 G/12; 21° 14' : 81° 38'), lignite. P. N. B., **R**, XVII, 130; L. L. F., **R**, L, 289.
- Raipur, *Chota Udaipur* (46 F/15; 22° 26' : 73° 50'), quartz veins with tourmaline. G. V. H., **R**, LIX, 344.
- Raipur, *Gwalior* (54 J/4; 26° 8' : 78° 2' 30"), laterite. C. A. H., **R**, III, 41; fire-clay. T. D. L., **R**, XI, 97.
- Raipur, *Jaipur* (45 M/14; 27° 44' 30" : 75° 57'), hornstone, Ajabgarh series, petrology. A. M. H., **R**, LIV, 373; iron-ore, 388.
- Raipura, *Dacca* (79 I/13; 23° 59' : 90° 53'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 330.
- Raipura, *Gangpur* (73 B/11; 22° 24' 30" : 84° 44' 30"), limestone. E. H. P., **R**, LXII, 57.
- Raireshwar, *Satara* (47 F/12; 18° 3' : 73° 43'), laterite. C. S. F., **M**, XLIX, 85.
- Raisindri Pahar, *Kharsawan* (73 F/13; 22° 52' : 85° 48'), Iron Ore series. J. A. D., **M**, LIV, 27, 42-44.
- Raisingpura, *Chota Udaipur* (46 J/4; 22° 3' : 74° 5'), Cretaceous beds, section. P. N. B., **M**, XXI, 29.
- Raithan, *Kashmir* (43 K/9; 33° 55' : 74° 39' 30"), lignitic coalfield. C. S. M., **R**, LV, 244 (Pl. xxix).
- Raivala, *Dehra Dun* (53 J/4; 30° 1' : 78° 14'), flexure and fault in Siwalik beds. R. D. O., **R**, XVII, 166=Raeewala.
- Rajabhita, *Santal Parganas* (72 P/5; 24° 56' : 87° 22'), kaolin. M. S., **R**, XXXVIII, 134.
- Rajadara, *Ranchi* (73 A/3; 23° 17' : 84° 14'), bauxite. C. S. F., **M**, XLIX, 181.
- Rajadhar, *Kewadaha* (64 F/4; 22° 13' 30" : 81° 8'), Chilgi Ghat beds. W. K., XVIII, 188.

- Rajakapalem, *Ramnad* (58 K/12; 9° 13': 78° 39' 30"), sand dunes. R. B. F., **M**, XX, 95.
- Rajamandri, Rajamahindri, Rajahmundry, *Godavari* (65 G/16; 17° 0' 30": 81° 46'), Kamthi sandstones. W. T. B., **R**, IV, 51; Deccan trap outlier, submarine. V, 91; **M**, VI, 139; Cuddalore sandstones. W. K., **M**, XVI, 248.
- Rajana, *Sirmur* (53 F/6; 30° 40': 77° 27'), Infra-Krol and Krol beds. L. L. F., **R**, LXV, 131.
- Rajani, *Sibi* (34 N/16; 30° 10': 67° 48' 30"), coal seam. R. D. O., **R**, XXIII, 108=Ragani.
- Rajaori, *Jammu* (43 K/7; 33° 23' 30": 74° 18' 30"), anticline in Murree beds. R. L., **R**, IX, 157; Eocene limestone. D. N. W., **M**, LI, 197, 258.
- Rajapooram (Basipur), *Salem* (58 I/3; 11° 27' 30": 78° 11'), iron-ore beds. W. K., **M**, IV, 296.
- Rajapur, *Ratnagiri* (47 H/10; 16° 39': 73° 31'), hot spring. T. O., **M**, XIX, 104.
- Rajar, *Yeotmal* (55 L/16; 20° 6' 30": 78° 54'), boring for coal. T. O., **R**, III, 48.
- Rajara, *Adilabad* (56 M/5; 19° 47': 79° 22'), colliery. J. C. B., **R**, LVII, 60.
- Rajauli, *Gaya* (72 H/10; 24° 39': 85° 30'), mica. T. H. H., **M**, XXXIV, 45.
- Rajawar, *Jammu* (43 K/7; 33° 22' 30": 74° 18'), hot spring. T. O., **M**, XIX, 117.
- Rajawarrum, *Kisna* (65 D/5; 16° 58': 80° 25'), 'kankar'. R. B. F., **R**, XVIII, 25.
- Rajawas, *Patiala* (53 D/3; 28° 18': 76° 4'), building stone. P. N. B., **R**, XXXIII, 61.
- Rajbar, *Palamau* (73 A/9; 23° 47' 30": 84° 39'), Barakar beds, section. V. B., **M**, XV, 63; iron-ore, 65, 118.
- Rajdaha, *Manbhum* (73 I/1; 23° 55': 86° 11'), dam-site. H. H. H., **R**, XLIII, 22.
- Rajdoha, *Singbhum* (73 J/6; 22° 41': 86° 18'), copper-ore. V. B., **R**, III, 96; T. H. H., **R**, XXXIX, 234.
- Rajdongri, *Ohhindwara* (55 K/5; 21° 46' 30": 78° 29'), Deccan trap flows. H. H. H., **R**, XLIV, 35.
- Rajdunda, *Palamau* (73 A/3; 23° 25' 30": 84° 7' 30"), pisolitic clay, analysis. C. S. F., **M**, XLIX, 164.
- Rajegaon, *Nagpur* (55 K/14; 21° 32' 30": 78° 57' 30"), crystalline limestone. P. N. D., **R**, XXXIII, 222.
- Rajerla, *Warangal* (65 G/16; 17° 10': 80° 48'), metamorphic rocks. W. T. B., **R**, V, 26.
- Rajgarh, *Alwar* (54 A/12; 27° 14': 76° 37'), iron mines. C. A. H., **R**, X, 91; XIII, 248; A. M. H., **M**, XLV, 119; flagstones, 127.
- Rajgarh, *Rawalpindi* (43 G/10; 33° 36': 73° 34'), Himalayan syntaxis. D. N. W., **M**, LI, 359.
- Rajgarh, *Sirmur* (53 F/5; 30° 51': 77° 18'), carbonaceous slates, Jutogh series. G. E. P., **M**, LIII, 16, 18, 74 (fig.); faults. E. H. P., **R**, LXII, 165.
- Rajgir, Rajghir, *Patna* (72 G/8; 25° 2': 85° 25'), quartzites and schists. H. B. M., **R**, II, 42; hot springs. T. O., **M**, XIX, 142; effect of earthquake, 1897. R. D. O., **M**, XXIX, 328.
- Rajhara, *Palamau* (73 A/1; 23° 59' 30": 84° 14'), magnetite. V. B., **M**, XV, 114.
- Rajhara, *Palamau* (72 D/4; 24° 10': 84° 2'), coal seam. T. W. H. H., **M**, VIII, 341; T. D. L., **R**, XXIV, 142; R. R. S., **M**, XII, 59; Karharbari plants. O. F., **R**, XVI, 176.

- Rajkota, *Nagpur* (55 O/7; 21° 29' : 79° 20'), piedmontite. L. L. F., **M**, XXXVII, 189, 976.
- Rajlani, *Jodhpur* (45 F/10; 26° 41' : 73° 37'), Vindhyan sandstones. A. M. H., **R**, LXV, 472.
- Rajmahal, *Jaipur* (45 O/5; 25° 54' : 75° 28'), gem garnets. C. A. H., **R**, XIII, 250; Alwar quartzite and conglomerate. A. M. H., **R**, LIV, 380; garnet, 389.
- Rajmahal, *Santal Parganas* (72 O/16; 25° 3' : 87° 50' 30"), geology of hills. V. B., **M**, XIII, pt. 2 (Pls. i-xi).
- Rajnagar, *Mewar* (45 G/16; 25° 4' : 73° 52' 30"), marble. E. H. P., **R**, LX, 48, 111.
- Rajore, *Merwara* (45 J/8; 26° 0' : 74° 23'), graphite. E. H. P., **R**, LVI, 29.
- Rajpipla, *Rewa Kantha* (46 G/9; 21° 47' : 73° 33' 30"), tuffs as building stone. P. N. B., **R**, XXXVII, 188.
- Rajpoor, *Bhopawar* (46 J/7; 22° 18' : 74° 21'), granitoid rocks and limestone. W. T. B., **M**, VI, 311.
- Rajpur, *Dehra Dun* (53 J/3; 30° 24' : 78° 6'), glass-works. T. H. H., **R**, XXXIX, 251; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 94; lignite. R. R. S., **M**, XLI, 115.
- Rajpur, *Sambalpur* (64 O/13; 21° 53' : 83° 55' 30"), Talchir beds. V. B., **R**, VIII, 105.
- Rajpura, *Punch* (43 K/5; 33° 48' 30" : 74° 16'), rhyolitic felsites. D. N. W., **M**, LI, 224; Dogra Slates, 229, 305.
- Rajula, *Kathiawar* (41 O/8; 21° 2' 30" : 71° 26'), pitchstone. F. F., **M**, XXI, 98.
- Rajur, *Adilabad* (56 M/5; 19° 47' : 79° 22'), boring for coal. T. W. H. H., **M**, XIII, 55.
- Rajwari, *Ratnagiri* (47 G/12; 17° 14' 30" : 73° 34'), hot spring. T. O., **M**, XIX, 105.
- Raka, *Persian Gulf* (11 J/8; 26° 12' : 50° 26'), raised coral reef. G. E. P., **M**, XXXIV, pt. 4, 56.
- Rakeya, *Korea* (64 I/11; 23° 20' : 82° 35'), coal seams. L. L. F., **M**, XLI, 190, 191, 217, 218.
- Rakh Nili, *Jhelum* (43 G/8; 33° 1' : 73° 16'), dome-fold, Siwalik. E. H. P., **R**, LXIII, 128.
- Rakha, *Singhbhum* (73 J/6; 22° 38' : 86° 22'), kyanite-rock. J. A. D., **M**, LII, 235; copper lodes. E. H. P., **R**, LXII, 35; L. L. F., **R**, LXV, 38.
- Rakhi, *Hissar* (53 C/3; 29° 17' : 76° 7'), geodetic station. R. D. O., **M**, XLII, 244.
- Rakhi gorge, *D. G. Khan* (39 K/1; 29° 58' : 70° 3'), Hemipneustes beds. E. V., **R**, XXXVI, 184, 251.
- Rakhob, *Udaipur*, C. P. (64 N/3; 22° 28' : 83° 13'), Talchir beds. W. K., **R**, XVIII, 193=Rakkob.
- Rakkiyapatti, *Salem* (58 I/2; 11° 34' : 78° 3'), magnetite. T. H. H., **R**, XXV, 136.
- Raksa, *Rewah* (64 E/16; 23° 9' : 81° 50'), coal seam. T. W. H. H., **M**, XXI, 244.
- Rakti R., *Darjeeling* (78 B/5; 26° 46' : 88° 19'), Damuda beds, section. F. R. M., **M**, XI, 17.
- Rala, *Rawalpindi* (43 G/3; 33° 22' : 73° 4'), *Hipparion*. D. N. W., **M**, LI, 284, 344.
- Ralagao, *Yestmal* (55 L/11; 20° 25' : 78° 31'), Intertrappean limestone. W. T. B., **R**, I, 64.
- Ralegurha, *Hazaribagh* (73 E/6; 23° 42' : 85° 22'), limestone. A. J., **M**, LII, 144.

- Rallum (Ralam), *Almora* (62 B/7; 30° 19' : 80° 17'), lead mines. A. W. L., **R**, II, 88.
- Ralong, *Sikkim* (78 A/7; 27° 19' 30" : 88° 19' 30"), hot spring. P. N. B., **R**, XXIV, 220.
- Ralphu glacier, *Almora* (62 B/7; 30° 24' : 80° 23'), Ladinic fossils. C. D., **M**, XXXVI, 277.
- Ralung, *Tibet* (77 L/1; 28° 48' : 90° 5'), granite. H. H. H., **R**, XXXII, 168; Jurassic beds. **M**, XXXVI, 160.
- Ram Drug, *Bellary* (57 E/3; 15° 18' : 77° 15'), epidote-granite vein. R. B. F., **M**, XXV, 177.
- Ram Ghat, *Belgaum* (48 I/1; 15° 50' : 74° 6'), lateritoid rock. R. B. F., **M**, XII, 210.
- Ram Thal, *Bikaner* (44 P/3; 28° 30' : 75° 0'), geodetic station. R. D. O., **M**, XLII, 231.
- Ramabhadrapuram, *Vizagapatam* (65 N/7; 18° 29' 30" : 83° 17'), kodurite. L. L. F., **M**, XXXVII, 246, 248-252; spandite, 265 (Pl. viii, fig. 4); manganese-ore, 1103.
- Ramachandrapuram, *Vizagapatam* (65 N/6; 18° 31' : 83° 20'), manganese-ore. W. K., **R**, XIX, 156.
- Ramagiri, *Jeypore* (65 J/1; 18° 46' 30" : 82° 15'), epidiorite. T. L. W., **A. R.**, 1900, 173.
- Ramalai, *N. Arcot* (57 L/13; 12° 59' 30" : 78° 53'), biotite-gneiss. L. L. F., **R**, LXV, 111.
- Ramandrug, *Sandur* (57 A/8; 15° 8' : 76° 27'), Dharwar beds, sections. R. B. F., **R**, XIX, 105; **M**, XXV, 97; manganite. L. L. F., **R**, XXXIII, 229 (Pl. xxii); **M**, XXXVII, 83; wad, 117, 388; manganese-ore, 1006-1025 (figs. & Pls. xlv, xlv).
- Ramanapuram, *Nellore* (57 N/13; 14° 57' : 79° 47'), Rajmahal beds. W. K., **M**, XVI, 172.
- Ramanjeri, *Chingleput* (57 O/16; 13° 12' : 79° 47' 30"), fossil wood, Jurassic. R. B. F., **M**, X, 88.
- Ramapatam, *Nellore* (66 A/4; 15° 3' : 80° 3'), lateritic gravel. R. B. F., **M**, XVI, 86.
- Ramapuram, *Coimbatore* (57 H/8; 12° 0' : 77° 24'), old workings for gold. H. H. H., **M**, XXXIII, pt. 2, 65.
- Rambha, *Ganjam* (74 E/2; 19° 31' : 85° 5' 30"), deposition of manganese oxide. L. L. F., **M**, XXXVII, 396, 1037.
- Rambhapur, *Jhabua* (46 J/5; 22° 55' : 74° 29' 30"), manganese-ore. L. L. F., **M**, XXXVII, 687.
- Rambrai, *Khasi Hills* (78 O/6; 25° 39' : 91° 19'), earthquake, 1897, projection of stone. R. D. O., **M**, XXIX, 131 (fig.), 346.
- Ramchandarpur, *Dinajpur* (78 C/10; 25° 40' 30" : 88° 32'), geodetic station. R. D. O., **M**, XLII, 243.
- Ramchandrapur, *Kharsawan* (73 F/13; 22° 46' 30" : 85° 47'), banded granite. J. A. D., **M**, LIV, 104.
- Ramchunder Trimullay (Rachchandar Tirumalai), *Trichingopoly* (58 J/9; 10° 45' : 78° 32'), quasi-porphyrific gneiss. W. K., **M**, IV, 270.
- Ramchunderpoor, *Burdwan* (73 M/2; 23° 36' : 87° 9'), granitite. W. T. B., **M**, I, 255.

- Ramdhal, *Bijapur* (47 P/16; 16° 5' : 75° 52'), rippled Kaladgi quartzite and basal breccia. R. B. F., **M**, XII, 108.
- Ramdih, *Banchi* (73 F/9; 22° 52' 30" : 85° 38'), feather amphibolite. J. A. D., **M**, LIV, 59 (Pl. xii, fig. 3).
- Ramdongri, *Nagpur* (55 O/3; 21° 24' : 79° 0' 30"), braunite. L. L. F., **M**, XXXVII, 75; blanfordite, 127, 130, 297; rhodonite, 141 (Pl. xii, fig. 3); manganophyllite (?), 196; gondite, 345 (Pl. xi, fig. 3); manganese-ore, 439, 461, 855 (Pl. xxiv).
- Ramenhalli, *Mysore* (57 D/14; 12° 30' : 76° 54'), corundum beds. W. K., **R**, XXV, 190.
- Ramesur, *Sambalpur* (64 O/13; 21° 46' 30" : 83° 57'), Talchir beds. V. B., **R**, VIII, 105.
- Rameswaram I., *Ramnad* (58 O/7; 9° 17' : 79° 19'), raised coral reef. R. B. F., **M**, XX, 60; J. W., **R**, XXIII, 117.
- Ranganga R., *Garhwal* (53 K/14; 29° 35' : 78° 50'), Nahan sandstones, section. C. S. M., **M**, XXIV, 110 (Pl. ii, fig. 5).
- Rangarh, *Alwar* (54 A/14; 27° 35' : 76° 49'), Alwar series. A. M. H., **M**, XLV, 80.
- Rangarh, *Bundi* (45 O/14; 25° 34' : 75° 54'), L. Bhandar sandstone. A. L. C., **R**, LX, 178; fault, 187 (figs.).
- Rangarh, *Hazaribagh* (73 E/10; 23° 38' : 85° 31'), coalfield. V. B., **M**, VI, 109 (Pl. i); R. R. S., **M**, XLI, 56; sand supplies. E. H. P., **R**, LV, 17.
- Rangarh, *Jaipur* (54 A/4; 27° 1' 30" : 76° 0' 30"), anticline, Ajabgarh series. A. M. H., **R**, LIV, 363.
- Rangarh, *Manbhum* (73 J/1; 22° 52' : 86° 10'), Dalma trap, section of dyke. V. B., **M**, XVIII, 80.
- Rangarh, *Naini Tal* (53 O/11; 29° 26' : 79° 33'), iron-ore. A. W. L., **R**, II, 87; T. W. H. H., **R**, VII, 16=Ramgur.
- Rangarh hill, *Surguja* (64 J/13; 22° 53' : 82° 54'), coal seam. V. B., **R**, XV, 111; R. R. S., **M**, XLI, 83.
- Rangiri, *Anantapur* (57 F/7; 14° 18' : 77° 30'), old workings for gold. L. L. F., **R**, XLVI, 92.
- Rangol, *Sandur* (57 A/8; 15° 9' 30" : 76° 30'), Dharwar rocks. R. B. F., **M**, XXV, 106.
- Ramgur, *Naini Tal* (53 O/11; 29° 26' : 79° 33'), iron-ore. H. B. M., **M**, III, pt. 2, 178=Ramgarh.
- Ramjitola, *Bhandara* (55 O/10; 21° 38' : 79° 42' 30"), manganese-ore. L. L. F., **M**, XXXVII, 460.
- Ramkinnalee, *Manbhum* (73 I/5; 23° 48' : 86° 19'), Barakar beds, section. T. W. H. H., **M**, V, 273.
- Ramkola, *Surguja* (64 I/14; 23° 39' : 82° 59'), coalfield. C. L. G., **M**, XV, 129 (figs. & Pls. i-vii); R. R. S., **M**, XLI, 80.
- Ramkund, *Mianwali* (38 P/6; 32° 33' : 71° 18'), pre-Triassic beds, section. A. B. W., **M**, XVII, 268.
- Ramlallpur, *Bankura* (73 M/2; 23° 31' 30" : 87° 4' 30"), dolomite. V. B., **R**, X 152; **M**, XVIII, 109.
- Ramnagar, *Burdwan* (73 I/13; 23° 45' : 86° 50'), coal seam. W. T. B., **M**, III, 58; shells in older alluvium, 140.

- Ramnagar, *Naini Tal* (53 O/3; 29° 23': 79° 7'), Siwalik beds. C. S. M., **R**, XXIII, 216.
- Ramnagar, *Rewah* (63 H/4; 24° 11': 81° 9'), Kheinjua stage, zonal divisions. P. N. D., **M**, XXXI, 145.
- Rampalli, *Balaghat* (64 C/2; 21° 40': 80° 1'), quartzite, gondite series. L. L. F., **M**, XXXVII, 734.
- Rampore, *Kashmir* (43 J/4; 34° 8': 74° 10'), para-schists and conglomerate. L. L. F., **R**, LXV, 124=Rampur (S.).
- Rampore Beaulah, *Rajshahi* (78 D/11; 24° 22': 88° 36'), river erosion. W. T., **R**, III, 24=Rampur Baulia.
- Rampur, *Bashahr* (53 E/11; 31° 27': 77° 38'), micaceous iron-ore. F. R. M., **M**, V, 168; steatite, 172; trap-rocks. C. A. M., **R**, XIX, 67; petrology, 72.
- Rampur (E.), *Cutch* (41 E/8; 23° 5': 69° 28'), Jurassic beds, junction with trap. A. B. W., **M**, IX, 191.
- Rampur (W.), *Cutch* (41 A/15; 23° 20': 68° 49'), Gaj series, mollusca. E. V., **M**, I, 12, 23, 44, etc.
- Rampur (N.), *Kashmir* (43 F/14; 34° 32' 30"; 73° 51'), Salkhala series. D. N. W., **R**, LXV, 199.
- Rampur (S.), *Kashmir* (43 J/4; 34° 8': 74° 10'), river terrace. R. L., **R**, XII, 30; W. T., **R**, XIII, 225=Rampore.
- Rampur, *Narsinghpur* (55 M/4; 23° 5': 79° 8'), Ganurgarh shales. F. R. M., **M**, VII, 87.
- Rampur, *Palamu* (73 A/10; 23° 44': 84° 40'), Barakar boundary. V. B., **M**, XV, 67.
- Rampur (N.), *Rewah* (63 H/7; 24° 20': 81° 29'), Kheinjua limestone. P. N. D., **R**, XXVIII, 146.
- Rampur (S.), *Rewah* (64 E/12; 23° 13': 81° 42'), coal seams. T. W. H. H., **M**, XXI, 181, 244; R. R. S., **M**, XLI, 78.
- Rampur, *Sambalpur* (64 O/13; 21° 47': 83° 56' 30"), coalfield, borings. W. K., **R**, XVIII, 196; XIX, 210 (Pls. viii, ix); G. F. R., **A**, **R**, 1900, 63 (Pl. i); **M**, XXXII, 89 (Pls. i-iv); R. R. S., **M**, XLI, 85; see also Raigarh and Hingir.
- Rampur, *Surguja* (64 N/2; 22° 35': 83° 12'), coalfield. V. B., **R**, XV, 110; R. R. S., **M**, XLI, 83.
- Rampur Baulia, *Rajshahi* (78 D/11; 24° 22': 88° 36'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 226=Rampore Beaulah.
- Rampura, *Alwar* (54 A/6; 27° 38': 76° 25'), anticlines in Alwar series. A. M. H., **M**, XLV, 42.
- Rampura, *Indore* (45 P/7; 24° 28': 75° 26'), Vindhyan anticline. C. A. H., **R**, XIV, 292; T. H. H., **R**, XXXVIII, 63.
- Rampurhat, *Birbhum* (72 P/16; 24° 10': 87° 47'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 228; meteorite. H. W-r, **R**, LV, 136 (Pl. xxii).
- Ramra, *Singbhum* (73 F/10; 22° 44' 30": 85° 38'), silicified chlorite-schist. J. A. D., **M**, LIV, 115.
- Ramrama, *Balaghat* (55 O/13; 21° 51': 79° 56'), manganochlorite, L. L. F., **M**, XXXVII, 195; manganese-ore, 708.
- Ramsinghpur, *Alwar* (54 A/8; 27° 11': 76° 28' 30"), barytes. Sri Kumar Roy, **R**, LIV, 238.

- Ramsir, *Jodhpur* (40 K/14; 25° 43': 70° 53'), Malani rhyolites. W. T. B., **R**, X, 11.
- Ramteeruth, *Gulbarga* (56 H/1; 16° 58' 30": 77° 11'), hot spring. T. O., **M**, XIX, 146.
- Ramtek, *Nagpur* (55 O/7; 21° 24': 79° 20'), manganese-ore. L. L. F., **M**, XXXVII, 862.
- Ramthi R., *Darjeeling* (78 B/9; 26° 56': 88° 35'), coal seams. P. N. B., **R**, XXIII, 247; R. R. S., **M**, XLI, 36.
- Ramuapur, *Kheri* (62 D/7; 28° 22': 80° 29'), geodetic station. R. D. O., **M**, XLII, 213.
- Ramulkotta, *Kurnool* (57 I/2; 15° 34': 78° 0'), 'pinnacled quartzites', Paniam stage. W. K., **M**, VIII, 54 (fig.), 62 (Pl. iii); diamond mines, 105; iron smelting, 278.
- Ramuz (Ram Hormuz), *Persia* (10 E/11; 31° 17': 49° 36'), petroleum spring. G. E. P., **M**, XXXIV, pt. 4, 146.
- Ramwarum (Ramavaram), *Kurnool* (57 I/3; 15° 17': 78° 7' 30"), Jammalamadugu series, section. W. K., **M**, VIII, 73; Narji limestone, 86 (fig.).
- Ran Pethani, *Karachi* (35 P/9; 24° 49' 30": 67° 40'), water-supply. E. H. P., **R**, LX, 57; Gaj series, *Ostrea*. E. V., **M**, L, 432.
- Rana Ghat, *Sirmur* (53 F/5; 30° 56': 77° 18'), Chail overthrust. G. E. P., **M**, LIII, 22.
- Ranaghat, *Nadia* (79 A/12; 23° 10': 88° 34'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 224.
- Ranai R., *Surguja* (64 J/9; 22° 54': 82° 37'), coal seam. R. R. S., **M**, XLI, 82.
- Ranatand (Rojanitanr), *Manbhum* (73 I/6; 23° 41': 86° 22'), coal seam. T. W. H. H., **M**, V, 310.
- Ranchapar, *Santal Parganas* (72 P/4; 24° 1': 87° 9'), meteorite. H. W.-r., **R**, LV, 137 (Pls. xxii, xxiii).
- Ranchi, *Bihar* (73 E/7; 23° 22': 85° 20'), water-supply. C. S. M., **R**, XLV, 119; E. H. P., **R**, LIX, 53; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 264.
- Ranga, *Kashmir* (43 N/7; 34° 16': 75° 23'), 'pseudo-talus'. R. D. O., **R**, XXXI, 148.
- Rangamati, *Chittagong* (84 B/2; 22° 39': 92° 12'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 29.
- Rangamatia, *Saraikele* (73 F/14; 22° 34': 85° 57'), kaolin. E. H. P., **R**, LVI, 30.
- Rangapara, *Darrang* (83 B/9; 26° 49': 92° 41'), earthquake, 1897, effect on railway. R. D. O., **M**, XXIX, 98 (Pl. vi); sand vents, 338.
- Rangapuram, *Kurnool* (57 I/3; 15° 24': 78° 4'), hot springs. T. O., **M**, XIX, 148.
- Rangewadi, *Kolhapur* (47 H/13; 16° 51': 73° 55' 30"), bauxite. H. C. J., **R**, LIV, 424.
- Rangia, *Kamrup* (78 N/11; 26° 27': 91° 37'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 334.
- Rangimasao, *Khasi Hills* (78 O/11; 25° 20': 91° 41'), nummulitic limestone. H. B. M., **M**, VII, 164.
- Rang-kul, *Kashgar* (42 J/7; 38° 29': 74° 24'), Pamir limestone and Sarikol shales. H. H. H., **R**, XLV, 317.

- Ranglichu, *Sikkim* (78 A/12; 27° 11' 30": 88° 42'), copper-ore. P. N. B., **R**, XXIV, 226.
- Rangmahal, *Kamrup* (78 N/12; 26° 13' 30": 91° 44'), earthquake, 1897, after-shocks. R. D. O., **M**, XXX, 3.
- Rangmaw, *Khasi Hills* (78 O/11; 25° 22': 91° 31'), granite, relations with gneiss. R. W. P., **R**, LV, 156; Cretaceous beds, 159.
- Rangoon, *Hanthawaddy* (94 D/1; 16° 47': 96° 9'), tube-wells. R. D. O., **R**, XXVI, 64 (Pl. vii); E. V., **M**, XXXII, 62; E. H. P., **R**, LX, 60; L. L. F., **R**, LXV, 67; earthquakes: 1897, time record. R. D. O., **M**, XXIX, 63; 1912. J. C. B., **M**, XLII, 71; seismograph records, 85, 123; Srimangal, 1918, time record. M. S., **M**, XLVI, 34; 1927. J. C. B., **R**, LXII, 258 (Pl. ix); Pegu, 1930. LXV, 225, 233.
- Rangpur, *Bengal* (78 G/6; 25° 45': 89° 15'), earthquake, 1897. H. H. H., **M**, XXIX, 284 (Pls. xxv, xxvi); Srimangal earthquake, 1918, M. S., **M**, XLVI, 30.
- Rangring, *Lakhimpur* (83 M/12; 27° 15': 95° 43'), coal seams. F. R. M., **M**, XII, 310.
- Rangthong, *Khasi Hills* (78 O/7; 25° 20': 91° 23' 30"), Cretaceous shore-line. R. W. P., **R**, LV, 169.
- Rang-u-chang, *Andamans* (87 A/10; 11° 34': 92° 45'), copper-ore. F. R. M., **R**, XVII, 80.
- Rani Hat, *Darjeeling* (78 B/5; 26° 51': 88° 19'), copper-ore. F. R. M., **M**, XI, 72.
- Ranibagh, *Naini Tal* (53 O/11; 29° 17': 79° 32'), lignite, analysis. A. W. L., **R**, II, 88; granite, petrology. C. S. M., **R**, XXIII, 31.
- Raniganj, *Burdwan* (73 M/2; 23° 36': 87° 7'), coalfield. W. T. B., **M**, III, pt. 1 (figs. and Pls. i, ii); R. R. S., **M**, XLI, 43 (Pl. xviii); re-survey. E. H. P., **R**, LX, 98; LXI, 118; fossil plants. O. F., **R**, IX, 142; mica-trap, petrology P. N. B., **R**, XXI, 165; Cachar earthquake, 1869. T. O., **M**, XIX, 33.
- Ranijo, *Alwar* (54 A/16; 27° 12': 76° 55' 30"), Alwar series. A. M. H., **M**, XLV, 47.
- Ranikhet, *Almora* (53 O/6; 29° 38': 79° 25'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 202.
- Ranikot, *Karachi* (35 O/13; 25° 52': 67° 55'), Eocene beds. W. T. B., **R**, IX, 11; **M**, XVII, 37, 135; hot spring. T. O., **M**, XIX, 111=Runneekote.
- Raninagar, *Rajshahi* (78 D/14; 24° 44': 88° 58'), earthquake, 1897, fissures. H. H. H., **M**, XXIX, 280.
- Ranipet, *N. Arcot* (57 P/5; 12° 55' 30": 79° 20'), porphyritic greenstone. R. B. F., **R**, XII, 196; Gingee gneiss. E. H. P., **R**, LXIII, 125.
- Ranipur, *Charkari* (63 D/5; 24° 46' 30": 80° 15'), laterite. E. V., **R**, XXXIII, 272.
- Ranipura, *Hoshangabad* (55 F/14; 22° 34' 30": 77° 59'), carbonaceous beds, Bijori stage. E. H. P., **R**, LXIII, 111.
- Ranitalao, *Nandgaon* (64 C/12; 21° 5': 80° 38' 30"), lead and fluorite, see Chicholi.
- Ranjati peak, *Punch* (43 K/6; 33° 41': 74° 21'), Dogra Slates. D. N. W., **M**, LI, 309.
- Ranjitgarh, *Sialkot* (43 L/10; 32° 35': 74° 37'), geodetic station. R. D. O., **M**, XLII, 244.
- Ranjoti, *Punch* (43 K/3; 33° 27': 74° 5'), 'Great limestone'. D. N. W., **M**, LI, 253, 322.



- Rankari, *Punch* (43 K/1 ; 33° 52' : 74° 5' 30"), folding in Murree beds. D. N. W., **M**, LI, 321.
- Ranpet, *Chhindwara* (55 K/14 ; 21° 43' : 78° 49'), basalt, petrology. L. L. F., **R**, XXXIII, 163 ; biotite-gneiss, 182 ; amphibolite, 186.
- Ranpur, *Ahmadabad* (41 N/11 ; 22° 21' : 71° 42' 30"), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 112.
- Ranpur, *Kathiawar* (41 G/9 ; 21° 50' : 69° 41'), pitchstone. F. F., **M**, XXI, 98.
- Ranthambhor, *Jaipur* (54 B/8 ; 26° 1' : 76° 28'), Gwalior beds. A. M. H., **M**, XLV, 133 ; trap rocks, 135 ; fault, 177=Rimtumbour.
- Raona, *Jodhpur* (45 F/11 ; 26° 23' : 73° 40'), quartz reef. A. M. H., **R**, LXV, 470.
- Raondi, *Rewah* (64 I/5 ; 23° 56' 30" : 82° 30'), wollastonite-schist. F. R. M., **R**, VI, 42.
- Raontra, *Karauli* (54 B/15 ; 26° 16' 30" : 76° 46'), fault. A. M. H., **M**, XLV, 139 (fig.) ; Kaimur conglomerate, 155 ; Panna shales, 161, 163.
- Raori, *Jaipur* (45 N/13 ; 26° 57' 30" : 75° 59'), lime burning. A. M. H., **R**, LIV, 392.
- Raoti, *Sailana* (46 I/16 ; 23° 11' : 74° 53'), earthquake, 1897. R. D. O., **M**, XXIX, 50.
- Raphu, *Tibet* (71 P/3 ; 28° 17' : 87° 1'), Permo-Triassic limestone. A. M. H., **R**, LIV, 223, 232.
- Rapur, *Nellore* (57 N/12 ; 14° 12' : 79° 32'), hornblende gneiss. W. K., **M**, XVI, 131.
- Rarang, *Bashahr* (53 I/6 ; 31° 36' : 78° 22'), granite. C. A. M., **R**, X, 221 ; petrology. XVII, 56 ; hot spring. T. O., **M**, XIX, 122.
- Rargaon, *Ranchi* (73 F/13 ; 22° 59' : 85° 49'), chert replacing schist. J. A. D., **M**, LIV, 28.
- Rarisham, *Loralai* (39 F/15 ; 30° 21' : 69° 52'), *Nummulites atacicus*. W. L. F. N., **R**, LIX, 130.
- Ras El Khaima, *Persian Gulf* (18 O/13 ; 25° 48' : 55° 57'), Oman series. G. E. P., **M**, XXXIV, pt. 4, 10, 100.
- Ras Fartak, *Arabia* (21 A/1 ; 15° 58' : 52° 14'), Cretaceous fossils. G. E. P., **M**, XXXIV, pt. 4, 14.
- Ras Gharwen (Sharwain), *Arabia* (14 M/11 ; 15° 20' : 51° 39'), Cretaceous fossils. G. E. P., **M**, XXXIV, pt. 4, 14.
- Ras Koh, *Kalat* (34 H/1 ; 28° 50' : 65° 12'), augite-syenite, petrology. E. V., **M**, XXXI, 229, 291=Kas Koh.
- Ras Malan, *Las Bela* (35 G/3 ; 25° 18' : 65° 11'), Makran series. W. T. B., **R**, V, 43=Malan.
- Rasanur, *Nellore* (57 O/13 ; 13° 50' 30" : 79° 54'), iron-ore. W. K., **M**, XVI, 143 ; laterite capping on gneiss, 177.
- Rasem, *Sambalpur* (64 O/14 ; 21° 33' 30" : 83° 47' 30"), outlier of Talohirs. V. B., **R**, X, 173.
- Rashmi, *Mewar* (45 K/8 ; 25° 3' 30" : 74° 22'), Delhi conglomerates. L. L. F., **R**, LXV, 141.
- Rasidpur, *Sylhet* (78 P/11 ; 24° 17' : 91° 34'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 11.
- Rasnu, *Jaipur* (54 B/10 ; 26° 41' 30" : 76° 34'), kaolin. H. H. H., **R**, XLIII, 19 ; A. M. H., **R**, XLVIII, 201.

- Rassida, *Jodhpur* (45 F/4; 26° 13' 30" : 73° 8'), concretionary patches in granite T. D. L., **M**, XXXV, 53.
- Rassif, *Iraq* (36° 1' : 43° 16'), sulphur spring. E. H. P., **M**, XLVIII, 28.
- Rasul, *Gujrat* (43 H/10; 32° 42' : 73° 33'), U. Siwalik beds. G. E. P., **R**, XLIII, 274.
- Raswan, *Birbhum* (73 M/1; 23° 47' : 87° 12' 30"), boring for coal. W. T. B., **M**, III, 47.
- Ratagarh, *Dhar* (55 B/3; 22° 24' 30" : 76° 13'), fibrous hollandite. L. L. F., **M**, XXXVII, 674.
- Ratakhand, *Gangpur* (73 B/11; 22° 20' : 84° 42'), manganese-ore. E. H. P., **R**, LXII, 58.
- Ratang R., *Spiti* (52 L/4; 32° 14' : 78° 1'), Silurian-Trias, section. H. H. H., **M**, XXXVI, 44, (Pl. i, fig. 1).
- Ratanpur, *Bilaspur* (64 J/3; 22° 17' : 82° 10'), Vindhyan sandstones and shales. W. K., **R**, XVIII, 175; manganese-ore. L. L. F., **R**, XL, 334.
- Ratanpur, *Rajpipla* (46 G/2; 21° 43' 30" : 73° 11'), agate mines. P. N. B., **R**, XXXVII, 176=Ruttunpoor.
- Ratanpura, *Alwar* (54 A/12; 27° 12' : 76° 36'), basal conglomerate, Alwar series. A. M. H., **M**, XLV, 18.
- Ratansarai, *Gangpur* (64 N/12; 22° 3' 30" : 83° 40'), coal seam, assays. W. K., **R**, XIX, 217.
- Rataura, *Korea* (64 I/3; 23° 23' : 82° 12'), coal seams. T. W. H. H., **M**, XXI, 195, 244.
- Rathedaung, *Akyab* (84 D/15; 20° 29' : 92° 45' 30"), Burma earthquake, 1912. J. C. B., **M**, XLII, 69.
- Rathokhani, *Sikkim* (78 A/8; 27° 10' : 88° 15'), copper mine. P. N. B., **R**, XXIV, 227=Rattu.
- Ratkuria, *Jodhpur* (45 F/10; 26° 33' : 73° 33' 30"), Vindhyan sandstones. A. M. H., **R**, LXV, 472.
- Ratnagiri, *Bombay* (47 H/5; 16° 59' : 73° 18'), plant beds and laterite. W. T. B., **R**, V, 99; R. B. F., **M**, XII, 222; Warkalli beds, section. W. K., **R**, XV; 101=Rutnagherry.
- Ratnapur, *Ohanda* (55 P/11; 20° 21' : 79° 34'), iron-ore. T. W. H. H., **R**, VI, 78, assays. **M**, XIII, 111; P. N. D., **R**, XXXVIII, 312.
- Ratta Chunj, *Hazara* (43 F/9; 34° 50' : 73° 32'), marble. D. N. W., **R**, LXV, 197.
- Ratta Hotar, *Rawalpindi* (43 G/1; 33° 45' : 73° 6'), oil seepages. H. H. H., **R**, XLIV, 23; E. H. P., **M**, XL, 397 (Pl. lxxvii).
- Ratti Kheri, *Attock* (38 O/15; 33° 22' : 71° 47'), Siwalik syncline. L. L. F., **R**, LXV, 122.
- Rattu, *Sikkim* (78 A/8; 27° 10' : 88° 15'), copper mine. F. R. M., **M**, XI, 75 =Rathokhani.
- Raturcha, *Jhelum* (43 D/14; 32° 42' : 72° 59' 30"), *Conularia* bed. C. S. M., **R**, XXIV, 21.
- Rauni (Roni), *Simla* (53 E/8; 31° 12' 30" : 77° 20' 30"), nummulitic bands in Madhan slates. E. H. P., **R**, LIII, 11=Runi.
- Rautankuppam (Ravuthankappam), *S. Arcot* (57 P/16; 12° 1' : 79° 47'), Cretaceous fossils. H. W., **R**, XXVIII, 17, 18; F. K., **R**, XXX, 56, 59.

- Ravacherla, *Kistna* (65 D/14; 16° 44' : 80° 49' 30"), Rajmahal plants. W. K., **M**, XVI, 214.
- Ravar, *Persia* (24 A/16; 31° 15' : 56° 53'), Cretaceous unconformity. G. H. T., **R**, LIII, 57 (Pl. vii); U. Liassic fossils, 58; galena, 74.
- Raveralah (Ravirala), *Kistna* (65 D/1; 16° 49' 30" : 80° 6' 30"), section, Kurnool series. R. B. F., **M**, VIII, 308 (Pl. viii, fig. 5).
- Ravipadu, *Guntur* (65 D/3; 16° 15' 30" : 80° 0' 30"), epidote-gneiss. R. B. F., **M**, XVI, 30.
- Ravivalsa, *Vizagapatam* (65 N/11; 18° 18' : 83° 35'), manganese-ore. L. L. F., **M**, XXXVII, 464, 1048.
- Rawala Kot, *Punjab* (43 G/13; 33° 51' 30" : 73° 46'), lacustrine alluvium. D. N. W., **M**, LI, 287.
- Rawalpindi, *Punjab* (43 G/2; 33° 37' : 73° 3'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 216; loess. D. N. W., **M**, LI, 290; water-supply. L. L. F., **R**, LXV, 69.
- Rawanwara, *Chhindwara* (55 J/16; 22° 12' : 78° 48'), coal seam. W. T. B., **R**, XV, 129; E. J. J., **M**, XXIV, 27.
- Rawatmal (Raotmala), *Merwara* (45 K/1; 25° 54' 30" : 74° 10'), mica. T. H. H., **M**, XXXIV, 70.
- Rawundeo, *Behul* (55 J/4; 22° 8' 30" : 78° 4'), pre-Talchir erosion of crystalline rocks. J. G. M., **M**, II, 152 (fig.); Damuda beds, section, 154; coal seams, 268; W. T. B., **R**, 1, 9.
- Raya Drug, *Bellary* (57 B/14; 14° 42' : 76° 51'), granite. R. B. F., **M**, XXV, 46.
- Rayakotta, *Salem* (57 L/2; 12° 31' : 78° 2'), augite-norite dykes. T. H. H., **R**, XXX, 27.
- Rayanwala, *Ambala* (53 F/11; 30° 18' : 77° 32'), water-level in well. H. B. M., **R**, XIV, 228; XVII, 146.
- Rayapudupakam, *S. Arcot* (57 P/16; 12° 2' : 79° 48'), Cretaceous fossils. F. K., **R**, XXX, 59=Royapoothoopakkam.
- Rayin, *Persia* (24 G/6; 29° 35' : 57° 27'), Cretaceous fossils. G. H. T., **R**, LIII, 61; travertine. G. E. P., **M**, XLVIII, pt. 2, 113.
- Razmak, *Waziristan* (38 H/14; 32° 44' : 69° 51'), older alluvium. M. S., **R**, LIV, 93.
- Re Ung (Rayeng), *Darjeeling* (78 A/8; 27° 0' : 88° 26'), copper-ore. F. R. M., **M**, XI, 76.
- Rearda, *Singbhum* (73 F/6; 22° 36' 30" : 85° 17'), vesicular chloritic rock. J. A. D., **M**, LIV, 76.
- Red Hills, *Madras* (66 C/4; 13° 11' : 80° 7'), Trivictory beds. H. F. B., **M**, IV, 11; Cuddalore sandstones, 177; laterite. R. B. F., **M**, X, 30.
- Red Hills, *Pondicherry* (58 M/13; 11° 58' : 79° 47'), Cuddalore sandstones, H. F. B., **M**, IV, 173, 174.
- Reda (Rera), *Idar* (46 A/13; 23° 55' : 72° 56' 30'), pyroxene-rock. C. S. M., **M**, XLIV, 73 (fig.); olivine-dolerite, 132; rose-quartz, 150.
- Reddipolliam, *Trichinopoly* (58 M/4; 11° 8' 30" : 79° 10'), Ariyalur sands. H. F. B., **M**, IV, 139.
- Reddypully (Reddipalle), *Cuddapah* (57 N/4; 14° 5' : 79° 14'), breccia limestone, Cheyair series. W. K., **M**, VIII, 208.
- Redi, *Rainagiri* (48 E/10; 15° 45' : 73° 40'), iron-ore. H. H. H., **R**, XLIII, 18.

- Reethpoor (Ritpur), *Amraoti* (55 G/16; 21° 14' : 77° 49'), laterite. A. B. W., **R**, II, 5.
- Regadih, *Kharsawan* (73 F/9; 22° 47' : 85° 44' 30"), boring for copper. T. H. H., **R**, XXXVII, 30.
- Rehara, *Punch* (43 G/9; 33° 50' : 73° 41'), Mang stage, syncline. D. N. W., **M**, LI, 331.
- Rehi (Rokho), *Alwar* (54 A/7; 27° 28' : 76° 26'), hornstone breccia. A. M. H., **M**, XLV, 58.
- Rehlu, *Kangra* (52 D/4; 32° 13' 30" : 76° 13'), earthquake, 1905. C. S. M., **M**, XXXVIII, 11 (figs. & Pl. ii, fig. 1).
- Rehund R., *Mirzapur* (63 L/15; 24° 26' : 82° 58'), metamorphic rocks. H. B. M., **R**, II, 41; L. Vindhyan limestone. F. R. M., **M**, VII, 33; R. D. O., **M**, XXXI, 165.
- Reiwas hill, *Rewah* (63 H/11; 24° 24' : 81° 30'), Kaimur-Rohtas junction. P. N. D., **M**, XXXI, 158==Rewasin hill.
- Reji, *Punch* (43 K/1; 33° 55' 30" : 74° 13'), Dogra Slates. D. N. W., **M**, LI, 228; Gondwana syncline, 298.
- Remra, *Sambalpur* (64 O/14; 21° 41' : 83° 50'), Talchir beds. V. B., **R**, VIII, 103.
- Rengadih, *Manbhūm* (73 I/4; 23° 6' : 86° 12'), kyanite-rock. J. A. D., **M**, LII, 210.
- Rengalbera, *Singhbhum* (73 F/6; 22° 33' 30" : 85° 29' 30"), altered dyke. J. A. D., **M**, LIV, 91.
- Renghag, *Jashpur* (73 B/1; 22° 47' : 84° 14'), waterfall. C. S. F., **M**, XLIX, 160.
- Renging, *Abor Hills* (82 P/8; 28° 8' : 95° 15' 30"), Gondwana sandstones. J. C. B., **R**, XLII, 239.
- Rengopuram, *Salem* (57 H/16; 12° 9' : 77° 56' 30"), corundum. C. S. M., **R**, XXIX, 46.
- Reni, *Alwar* (54 A/12; 27° 10' : 76° 44'), granite. A. M. H., **M**, XLV, 19, 89; pegmatite veins, 20; Ajabgarh slates, 83.
- Renwal, *Jaipur* (45 N/10; 26° 42' : 75° 41'), Alwar quartzite. A. M. H., **R**, LIV, 360.
- Reohal, *Rewah* (64 I/5; 23° 51' 30" : 82° 19'), *Glossopteris*, with rhizome attached. R. D. O., **R**, XXX, 49 (Pl. iii).
- Rer, *Tonk* (45 N/15; 26° 17' : 75° 50'), egeran (idocrase). C. S. M., **M**, XLIV, 20.
- Rer R., *Surguja* (64 I/N. E.; 23° 45' : 82° 45'), trap dyke. C. L. G., **M**, XV, 154 (Pl. vi, fig. 3).
- Reri, *Chitral* (42 D/4; 36° 8' : 72° 2'), U. Devonian beds. E. H. P., **R**, LVI, 47.
- Rerli, *Sirmur* (53 F/6; 30° 41' : 77° 25'), Blaini beds. G. E. P., **M**, LIII, 32.
- Res, *Kohat* (38 O/15; 33° 25' : 71° 52'), Red series, Siwalik. W. W. R., XVII, 122.
- Reshian, *Kashmir* (43 F/15; 34° 15' 30" : 73° 49'), graphite and ochre. E. H. P., **R**, LXII, 53, 59.
- Reshun, *Chitral* (42 D/4; 36° 9' : 72° 6'), conglomerate. H. H. H., **R**, XLV, 284; L. L. F., **R**, LIV, 56.
- Resu, *Hazara* (43 F/6; 34° 37' : 73° 21'), Infra-Trias beds. D. N. W., **R**, LXV, 204.
- Rewah, *Central India* (63 H/6; 24° 31' : 81° 17'), lithographic stone. F. R. M., **M**, VII, 115.
- Rewara, *Mewar* (45 K/8; 25° 8' : 74° 22' 30"), copper-and lead-ores. C. A. H., **R**, XIII, 247; L. L. F., **R**, LXV, 55.

- Rewari, *Gurgaon* (53 D/12; 28° 12': 76° 37'), roofing slates. C. A. H., **R**, XIV, 287; T. H. H., **R**, XXXIX, 271.
- Rewasa (Riwas), *Jaipur* (54 A/12; 27° 6': 76° 31' 30"), pre-Delhi rocks. A. M. H., **M**, XLV, 17, 21.
- Rewasin hill, *Rewah* (63 H/11; 24° 24': 81° 30'), contortion in Rohtas limestone. F. R. M., **M**, VII, 43 (fig.)=Reiwas hill.
- Rewil, *Kashmir* (43 N/3; 34° 16': 75° 7' 30"), anticline in Panjal Slates. R. L., **R**, XI, 47.
- Rghail, *Persian Gulf* (18 N/14; 26° 38': 55° 53'), miliolite. G. E. P., **M**, XXXIV, pt. 4, 136 (fig.).
- Rhenock, *Sikkim* (78 A/12; 27° 10': 88° 38' 30"), copper-ore. P. N. B., **R**, XXIV, 225.
- Rhotak Colah, *Sikkim* (78 A/8; 27° 13': 88° 30'), copper-ore. T. H. H., **R** XXXIX, 238.
- Rhotas, *Jhelum* (43 H/9; 32° 58': 73° 35'), post-Tertiary gravels. H. B. M., **R**, IX, 56; U. Siwalik anticline. L. L. F., **R**, LXV, 120.
- Rhotasgarh, *Shahabad* (63 P/14; 24° 38': 83° 55'), 'coal' in Bijaigarh shales. E. H. P., **R**, LXII, 35=Rohtasgarh and Rotasgarh.
- Riarda, *Manbhumi* (73 F/13; 22° 52' 30": 85° 53'), 'feather' amphibolite. J. A. D. **M**, LIV, 59; 'relic' ophitic structure in epidiorite, 77.
- Riasi, *Jammu* (43 K/16; 33° 5': 74° 50'), 'erratio'. W. T., **R**, XIII, 236, 242; iron-ore. R. L., **M**, XXII, 72; 'Great limestone', 203; galena, assay. G. S. L., **R**, XXXI, 47.
- Richera hill, *Ohhindwara* (55 N/3; 22° 23': 79° 6'), heulandite in Deccan trap. J. G. M., **M**, II, 220.
- Richmond estate, *Wynaad* (58 A/7; 11° 29' 30": 76° 22'), auriferous reef. H. H. H., **A**, **R**, 1900, 55; **M**, XXXIII, pt. 2, 21.
- Rifa'a, *Persian Gulf* (11 J/12; 26° 7': 50° 33'), Eocene limestone, G. E. P., **M**, XXXIV, pt. 4, 114; water-supply, 124.
- Rikat, *Persia* (10 I/1; 31° 45' 30": 50° 14'), Bakhtiyari gravels. G. E. P., **M**, XXXIV, pt. 4, 85.
- Rikha, *Hazaribagh* (73 E/5; 23° 45': 85° 22'), Talchir beds. T. W. H. H., **M**, VII, 294; coal seams, 316; Talchir plants. O. F., **R**, XIV, 243; Ironstone shales. A. J., **M**, LII, 126; Raniganj stage, coal, 132.
- R'khabdeo, *Mewar* (45 H/12; 24° 4' 30": 73° 41' 30"), steatite. L. L. F., **R**, LXV, 67, 141.
- Riki Kase, Rikhikhes, *Dehra Dun* (53 J/8; 30° 6': 78° 18'), Nahan-Siwalik boundary. H. B. M., **M**, III, pt. 2, 116; W. T. **R**, XIV, 99; R. D. O., **R**, XVII, 163.
- Rikor, *Abor Hills* (82 L/13; 28° 49': 94° 55'), biotite-schists and dolomite. J. C. B., **R**, XLII, 250.
- Rilkot, *Almora* (62 B/3; 30° 19': 80° 12' 30"), 'central gneiss'. T. W. H. H., **R**, XI, 184.
- Rimar, *Rewah* (63 H/8; 24° 12': 81° 17'), L. Vindhyan-gneiss contact. P. N. D., **M**, XXXI, 141.
- Rimkin Paar, *Garhwal* (53 N/13; 30° 48' 30": 80° 0'), Muth quartzite-L. Trias. C. L. G., **M**, XXIII, 136.

- Rimo glacier, *Ladakh* (52 E/7; 35° 20' : 77° 25'), movements of snout. K. M., **R**, LXIII, 266 (Pl. vii, 28).
- Rimtumbour, *Jaipur* (54 B/8; 26° 1' : 76° 28'), Alwar quartzites, trap flows. C. A. H., **R**, X, 89; XIV, 288=Ranthambhor.
- Rinchinpong, *Sikkim* (78 A/8; 27° 14' 30" : 88° 16'), copper-ore. P. N. B., **R**, XXIV, 227.
- Risapat, *Ranchi* (73 A/7; 23° 24' : 84° 25'), bauxite. C. S. F., **M**, XLIX, 175.
- Risara (Richara), *Nagpur* (55 O/3; 21° 28' : 79° 0'), rhodonite, L. L. F., **M**, XXXVII, 144; manganese-ore, 859.
- Rishehr, *Persian Gulf* (10 L/13; 28° 54' : 50° 50'), sub-recent conglomerate. G. E. P., **M**, XXXIV, pt. 4, 61.
- Riu, *Abor Hills* (82 P/3; 28° 19' : 95° 3'), volcanic series. J. C. B., **R**, XLII, 243.
- Riwari, *Patiala* (53 F/1; 30° 51' 30" : 77° 11' 30"), Infra-Krol slates. (C. E. P., **M**, LIII, 11.
- Riwat, *Rawalpindi* (43 G/3; 33° 30' : 73° 12'), Kamliar leds. D. N. W., **M**, LI, 281 (Pl. iv, fig. 1); fault, 347.
- Robat, *Chagai* (30 C/13; 29° 48' : 60° 56'), L. Eocene beds. E. V., **M**, XXXI, 263 (Pls. vi, vii, & ix, fig. 13); copper slags, 292; T. H. H., **R**, XXX, 129.
- Robat-i-Pai, *Afghanistan* (29 F/15; 34° 16' : 61° 46'), L. Carboniferous fossils. C. L. G., **R**, XIX, 51; H. H. H., **R**, XLIII, 15.
- Robat-i-Surkh, *Afghanistan* (29 J/7; 34° 22' : 62° 22'), Jurassic plant beds. C. L. G., **R**, XIX, 57, 59.
- Roohda, *Kharsawan* (73 F/9; 22° 50' : 85° 40' 30"), 'feather' amphibolite. J. A. D., **M**, LIV, 59.
- Rode, *Bilaspur* (64 J/5; 22° 49' 30" : 82° 27'), coal seam. R. K. S., **M**, XLI, 82.
- Rodur, *Cutch* (41 E/11; 23° 23' : 69° 43'), Jurassic beds, fossils. A. B. W., **M**, IX, 157.
- Rogadi, *Keonjhar* (73 K/4; 21° 12' : 86° 14'), quartzite. W. T. B., **M**, I, 262.
- Roganathpali, *Gangpur* (73 B/16; 22° 14' : 84° 48'), Cuddapali beds. J. M. M., **R**, XXXI, 73.
- Rogod (Ragto), *Singhbhum* (73 F/6; 22° 42' : 85° 24' 30"), talc-schist after tuff. J. A. D., **M**, LIV, 66; granite-gneiss, 107.
- Rogonathchuk, *Burdwan* (73 M/2; 23° 35' : 87° 6' 30"), colliery, method of working. W. T. B., **M**, III, 165=Raghunathchak.
- Roha, *Cutch* (41 E/8; 23° 12' : 69° 16'), sub-recent concrete, lateritic iron-ore. A. B. W., **M**, IX, 277.
- Roha hill, *Cutch* (41 E/15; 23° 21' : 69° 58'), Jurassic sandstones. A. B. W., **M**, IX, 147.
- Rohania, *Rewah* (64 E/7; 23° 25' : 81° 25'), coal seams. T. W. H. H., **M**, XXI, 244.
- Rohera, *Sirohi* (45 D/14; 24° 37' : 72° 58'), cupriferous pyrites, with gold. T. D. L., **A. R.**, 1899, 45; E. H. P., **R**, LIX, 44; mica. T. H. H., **M**, XXXIV, 71.
- Rohobe (? Rabbob), *Udaipur*, C. P. (64 N/3; 22° 28' : 83° 13'), alluvial gold. V. B., **R**, II, 11.
- Rohri (Rahari), *Santal Parganas* (72 P/5; 24° 59' 30" : 87° 24'), kaolin. M. S., **R**, XXXVIII, 137; fire-clay, 140.
- Rohri, *Sukkur* (40 A/14; 27° 41' : 68° 55'), nummulitic limestone and clays. W. T. B., **M**, XVII, 45, 102; *Assilina*. W. L. F. N., **R**, LIX, 142, 144.

- Rohtasgarh, *Shahabad* (63 P/14; 24° 38': 83° 55'), alum shales. L. L. F., **R**, LIII, 250=Rhotasgarh and Rotasgarh.
- Rohu, *Palampur* (45 D/11; 24° 25': 72° 39'), manganiferous quartzite. L. L. F., **M**, XXXVII, 650.
- Rois hill, *Karachi* (35 O/15; 25° 17': 67° 47' 30'), Nari series, lamellibranchia. E. V., **M**, L, 449, 453.
- Roji, *Korea* (64 I/3; 23° 25' 30": 82° 5'), coal seam. T. W. H. H., **M**, XXI, 244.
- Rokas Kas, *Surguja* (64 I/9; 23° 53': 82° 45'), waterfall. C. L. G., **M**, XV, 132.
- Roliarmarcha, *Singhbhum* (73 F/9; 22° 47' 30": 85° 41'), uralitised dolerite. J. A. D., **M**, LIV, 136.
- Rom Tal, *Darjeeling* (78 B/9; 26° 55': 88° 35'), lako. F. R. M., **M**, XI, 7; P. N. B., **R**, XXII, 239.
- Rondil, *Jaipur* (45 M/16; 27° 14': 75° 53'), amethyst. A. M. H., **R**, LIV, 390.
- Rondu, *Ladakh* (43 M/2; 35° 35' 30": 75° 10'), crystalline rocks. R. L., **R**, XIV, 6; **M**, XXII, 310; copper-ore, 334.
- Rong Chu, *Tibet* (77 K/8; 29° 8': 90° 18'), reversal of drainage. H. H. H., **M**, XXXVI, 130, 133 (fig.); graphite and lead, 186; **R**, XXXII, 170.
- Rongbuk, *Tibet* (71 L/16; 28° 12': 86° 49'), altered limestone. A. M. H., **R**, LIV, 222.
- Rongme, *Tibet* (71 P/11; 28° 26': 87° 45'), gorge of Yaru R. A. M. H., **R**, LIV, 219.
- Rongrenggiri, *Garò Hills* (78 K/10; 25° 33': 90° 34'), coalfield. H. B. M., **R**, VII, 60; T. D. L., **R**, XV, 175; W. K., **R**, XXV, 5; R. R. S., **M**, XLI, 24.
- Ronhe, *Ranchi* (73 F/1; 22° 53' 30": 85° 9' 30"), hornblende-schist hybrid. I. A. N., **R**, LXV, 505.
- Roodrar, *Kurnool* (57 I/12; 15° 14' 30": 78° 36'), iron-smelting. W. K., **M**, VIII, 279=Rudravaram.
- Roorkee, *Saharanpur* (53 G/13; 29° 52': 77° 54'), geodetic station. R. D. O., **M**, XLII, 240, 256=Rurki.
- Rorighat, *Hoshangabad* (55 J/7; 22° 25' 30": 78° 22'), Bijori shales. O. F., **R**, XII, 78.
- Roro Buru, *Singhbhum* (73 F/11; 22° 29': 85° 39'), chromite. H. H. H., **R**, L, 10.
- Roru (Rohru), *Simla* (53 E/16; 31° 12': 77° 45'), mica-schists. C. A. M., **R**, X, 220; dolerite, petrology. XX, 114.
- Rosamond Point, *Andamans* (86 D/15; 12° 24': 92° 54'), jasper beds. E. R. G., **R**, LIX, 215.
- Roshan, *Yasin* (42 H/12; 36° 13': 73° 30'), crystalline limestone. H. H. H., **R**, XLV, 297.
- Ross I., *Andamans* (86 G/3; 13° 18': 93° 5'), Tertiary fossils. R. D. O., **R**, XVIII, 140.
- Ross I., *Mergui* (95 L/4; 12° 15': 98° 5'), granite. E. H. P., **R**, LV, 33.
- Rotas, *Jhelum* (43 H/9; 32° 58': 73° 35'), sacred spring. A. B. W., **M**, XIV, 47; post-Tertiary gravels, 113=Rhotas.
- Rotasgurb, *Shahabad* (63 P/14; 24° 38': 83° 55'), L. Vindhyan limestone. F. R. M., **M**, VII, 41; lime burning, 113=Rhotasgarh and Rohtasgarh.
- Rotung, *Abor Hills* (82 P/4; 28° 8': 95° 9' 30"), volcanic series. J. C. B., **R**, XLII, 242.
- Roudserai, *Korea* (64 I/11; 23° 25' 30": 82° 38'), coal seams. T. W. H. H., **M**, XXI, 201, 244.

- Round I, (Taikkyun), *Kyaukpyu* (85 F/14; 18° 43' : 93° 49'), oil seepage. E. H. P., **M**, XL, 195; raised beach, 209.
- Rourkela, *Gangpur* (73 B/16; 22° 13' : 84° 53'), limestone quarries. J. M. M., **R**, XXXI, 73; reef quartz, assays, 77.
- Rowmari, *Rangpur* (78 G/14; 25° 34' 30" : 89° 50'), earthquake, 1897, change of level. R. D. O., **M**, XXIX, 159; fissures and sand-vents, 258 (Pls. x, xi).
- Royakotta, *Salem* (57 L/2; 12° 31' : 78° 2'), pyroxenite dyke. T. H. H., **M**, XXVIII, 165 (note).
- Royapoothoopakkam, Royapudupakam, *S. Arcot* (57 P/16; 12° 2' : 79° 48'), Ariyalur fossils. H. F. B., **M**, IV, 159; H. W., **R**, XXVIII, 18=Rayapudupakam.
- Rozabad, *Afghanistan* (38 J/7; 34° 24' : 70° 15'), metamorphic rocks. C. L. G., **R**, XX, 24.
- Ru, *Kyaukpyu* (85 E/13; 19° 45' 30" : 93° 50'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 67.
- Ruadih, *Manbhum* (73 F/13; 22° 59' : 85° 58' 30"), chert replacing schist. J. A. D., **M**, LIV, 28.
- Ruasi, *Mayurbhanj* (73 J/7; 22° 24' : 86° 16' 30"), alluvial gold. P. N. B., **R**, XXXI, 170.
- Rudan hills, *Persia* (25 E/6; 27° 32' : 57° 15'), Cretaceous limestone. G. E. P., **M**, XLVIII, pt. 2, 62.
- Rudarpraeg, *Garhwal* (53 J/15; 30° 17' : 78° 59'), quartz-schist, petrology. C. S. M., **R**, XXI, 27.
- Rudawal, *Bharatpur* (54 F/5; 26° 58' : 77° 25'), U. Rewah sandstone. F. R. M., **M**, VII, 80.
- Rud-i-Kul, *Persia* (18 M/16; 27° 13' : 55° 56'), Fars-Bakhtiyari series, section. G. E. P., **M**, XLVIII, pt. 2, 96.
- Rud-i-Shilu, *Persia* (25 A/14; 27° 34' : 56° 53'), Eocene limestone. G. E. P., **M**, XLVIII, pt. 2, 101.
- Rudkhana-i-Duzdi, *Persia* (25 E/6; 27° 40' : 57° 22'), metamorphic rocks. G. H. T., **R**, LIII, 54=Duzdan R.
- Rudmi Pat, *Ranchi* (73 A/10; 23° 31' : 84° 36'), laterite. C. S. F., **M**, XLIX, 169.
- Rudravaram, *Kurnool* (57 I/12; 15° 14' 30" : 78° 36'), hot spring. T. O., **M**, XIX, 148=Roodrar.
- Rugri, *Ranchi* (73 F/9; 22° 50' : 85° 31' 30"), penninite after ottrelite (?) in mica-schist. J. A. D., **M**, LIV, 52 (Pl. xii, fig. 2).
- Rugudih, *Ranchi* (73 F/9; 22° 53' : 85° 39'), epidosite. J. A. D., **M**, LIV, 82; auriferous quartz veins, 163.
- Ruhang (Runang) pass, *Bashahr* (53 I/6; 31° 43' : 78° 26'), slates, ? Simla series. C. A. M., **R**, XII, 58.
- Rukhla, *Shahpur* (38 P/15; 32° 26' : 71° 57'), rock-salt. E. H. P., **R**, LXII, 66; Salt Marl-Permian, section, 162; Productus Limestone fauna. F. C. R., **R**, LXII, 438.
- Rulagong, *Zangskar* (52 C/13; 33° 46' : 76° 49'), Triassic limestone, gorges. T. D. L., **R**, XXIII, 67.
- Rumbag, *Ladakh* (52 F/8; 34° 3' : 77° 25'), Eocene beds. F. S., **M**, V, 344.
- Rumli, *Rawalpindi* (43 G/1; 33° 46' : 73° 8'), sulphurous spring. D. N. W., **M**, LI, 353.



- Rumtek R., *Darjeeling* (78 B/9; 26° 56' : 88° 35'), Damuda coal seam, section. F. R. M., **M**, XI, 26.
- Rundaha, *Korea* (64 I/11; 23° 28' 30" : 82° 41'), coal seams. T. W. H. H., **M**, XXI, 244.
- Runganadapooram, *Trichinopoly* (58 I/12; 11° 12' : 78° 36'), 'kankar' derived from gneiss. W. K., **M**, IV, 344.
- Rungapur, *Warangal*, (65 C/2; 17° 39' : 80° 5'), quartz-schists. W. K., **M**, XVIII, 216.
- Runi, *Simla* (53 E/8; 31° 12' 30" : 77° 20' 30"), Kakarhatti limestone (?). H. B. M., **M**, III, pt. 2, 49=Rauni.
- Runneekote, *Karachi* (35 O/13; 25° 52' : 67° 55'), Eocene beds. W. T. B., **M**, VI, 5=Ranikot.
- Rupa, *Bashahr* (53 I/5; 31° 48' : 78° 25'), Ordovician quartzite. H. H. H., **M**, XXXVI, 23.
- Rupal, *Idar* (46 E/2; 23° 33' : 73° 7' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 91; quartz vein, 131.
- Rupas, *Bharatpur* (54 F/9; 27° 0' : 77° 35'), sandstone quarries. F. R. M., **M**, VII, 118; V. B., **R**, VII, 116.
- Rupaura, *Rewah* (64 E/15; 23° 20' : 81° 50'), coal seam. T. W. H. H., **M**, XXI, 244.
- Rupganj, *Dacca* (79 I/9; 23° 48' : 90° 31'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Ruphari, *Jaipur* (54 B/2; 26° 41' : 76° 6'), Aravalli rocks (?). A. M. H., **R**, LIV, 360.
- Rupin pass, *Bashahr* (53 I/3; 31° 21' : 78° 11'), mica-schists. C. A. M., **R**, X, 219.
- Rupiri pass, *Punch* (43 K/10; 33° 30' 30" : 74° 34' 30"), glacial lakes. D. N. W., **M**, LI, 206; gabbro bosses, 219.
- Rupjar, Rupjhar, *Balaghat* (64 C/5; 21° 57' : 80° 25' 30"), bauxite, analyses. T. H. H., **R**, XXXII, 179; W. R. D., **R**, XXXVII, 214; C. S. F., **M**, XLIX, 135.
- Rupsi, *Goalpara* (78 F/16; 26° 8' : 89° 56'), earthquake, 1897, aftershocks. R. D. O., **M**, XXIX, 127.
- Rupura, *Bundi* (45 O/7; 25° 23' 30" : 75° 25'), U. Vindhyan, section. A. L. C., **R**, LX, 178 (fig.).
- Rurka (Rainka), *Sirmur* (53 F/6; 30° 36' 30" : 77° 27'), origin of lake. H. B. M., **M**, III, pt. 2, 157.
- Rurki, *Saharanpur* (53 G/13; 29° 52' : 77° 54'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 119 (figs.)=Roorkee.
- Russel I., *Mergui* (96 J/4; 10° 14' : 98° 14'), auriferous pyrites. T. H. H., **R**, XXXVIII, 56.
- Russelkonda, *Ganjam* (74 A/9; 19° 56' : 84° 35'), mica-pegmatite. F. H. S., **A. R.**, 1900, 164.
- Russhun, *Kristnapur* (Rajankrishnapuram), *Tinnevely* (58 H/12; 8° 9' 30" : 77° 33'), Warkalli beds. R. B. F., **R**, XVI, 29.
- Rutland I., *Andamans* (87 A/11; 11° 25' : 92° 40'), chromite. F. R. M., **R**, XVII, 84; serpentine and Tertiary sandstones. E. R. G., **R**, LIX, 224.
- Rutnagherry, *Bombay* (47 H/5; 16° 59' : 73° 18'), plant beds and laterite. C. J. W., **R**, IV, 44=Ratnagiri.

- Ruttria, *Cutch* (41 E/8 ; 23° 0' : 69° 16'), sub-Nummulitic beds, section. A. B. W., **M**, IX, 71.
- Ruttunmul (Ratanmal) *Bhopawar* (46 J/2 ; 22° 31' : 74° 8'), limestone band in gneiss. W. T. B., **M**, VI, 196 ; Cretaceous beds, 209, 322.
- Ruttunpoor, *Rajpipla* (46 G/2 ; 21° 43' 30" : 73° 11'), agate mines. W. T. B., **M**, VI, 224, 381 ; Tertiary beds, section, 358—Ratanpur.
- Ruvach, *Idar* (46 E/2 ; 23° 44' : 73° 4' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 86.
- Ruwi, *Oman* (26 I/6 ; 23° 35' : 58° 28'), Archæan schists. G. E. P., **M**, XXXIV, pt. 4, 8 ; Oman series, 90 (fig.).
- Ruzulapad (Vorupallirachapalem), *Nellore* (57 N/11 ; 14° 16' : 79° 42' 30"), sipylite. G. H. T., **R**, L, 303.
- Ryagoodium (Ravigudem), *Warangal*, (65 C/14 ; 17° 37' 30" : 80° 56'), coal seams. R. R. S. **M**, XLI, 96=Ravigudem.
- Ryalcheroo (Rayalacheruvu), *Anantapur* (57 E/16 ; 15° 3' : 77° 49'), supposed occurrence of fossil shells. R. B. F., **R**, IV, 17 ; serpentinous limestone. W. K., **M**, VIII, 165 (fig.).
- Ryuk (Rewak), *Garo Hills* (78 K/11 ; 25° 18' : 90° 40'), coal seam. H. B. M., **R**, I, 13 ; R. R. S., **M**, XLI, 24.
- Saadatabad, *Persia* (17 P/16 ; 28° 2' : 55° 54'), Bakhtiyari conglomerate. G. E. P., **M**, XLVIII, pt. 2, 110.
- Sab, *Punch* (43 G/9 ; 33° 45' : 73° 36' 30"), L. Siwalik anticline. D. N. W., **M**, LI, 274, 326.
- Saba Taung, *Tavoy* (95 J/4 ; 14° 3' : 98° 15'), auriferous quartz veins. J. C. B., **M**, XLIV, 219.
- Sabagyidan, *Minbu* (84 L/12 ; 20° 4' : 94° 31' 30"), Eocene beds. G. C., **R**, XLI, 227 ; synclinal basin. E. H. P., **R**, LVI, 39=Subagyidan.
- Sabalpura, *Bundi* (45 O/14 ; 25° 33' : 75° 56' 30"), fault in Vindhya. A. L. C., **R**, LX, 188.
- Sabalvada, *Idar* (46 A/13 ; 23° 52' 30" : 72° 57' 30"), Idar granite. C. S. M., **M**, XLIV, 117.
- Sabarmati R., *Ahmadabad* (46 A/8, E. ; 23° 27' : 72° 49'), stone implements. R. B. F., **M**, XXV, 207.
- Sabata, *Thayetnyo* (85 I/16 ; 19° 9' : 94° 48'), lignite. R. R. S., **M**, XLI, 66.
- Sabazu Daung, *Minbu* (84 L/16 ; 20° 9' : 94° 51'), faults in Pegu series. E. H. P., **M**, XL, 159.
- Sabetmahet, *Gonda* (63 I/2 ; 27° 31' : 82° 3'), meteorite. H. B. M., **R**, XVIII, 237 ; J. C. B., **M**, XLIII, 258.
- Sabhar, *Dacca* (79 I/5 ; 23° 51' : 90° 15'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Sabli, *Idar* (46 E/2 ; 23° 43' 30" : 73° 3'), xenoliths in quartz-porphry. C. S. M., **M**, XLIV, 127 (Pl. xv, fig. 3).
- Sabo, *Rewah* (64 E/12 ; 23° 14' : 81° 35'), coal seam. R. R. S., **M**, XLI, 78.
- Sabrye R., *Cutch* (41 E/4 ; 23° 1' : 69° 7'), Gaj series, *Ostrea*. E. V., **M**, L, 429.
- Sabyi, *Myitkyina* (92 C/6 ; 25° 37' 30" : 96° 16'), syenite-porphry. E. H. P., **R**, LXII, 112.
- Sabz Kotal, *Afghanistan* (33 M/10 ; 35° 34' : 67° 37'), Jurassic beds with coal. C. L. G., **R**, XIX, 244 ; H. H. H., **M**, XXXIX, 32, 70 ; R. R. S., **M**, XLI, 12.

- Sabzalkot, *D. G. Khan* (39 G/16; 29° 9': 69° 59'), boring for water. H. B. M., R, XIV, 236.
- Sach pass, *Chamba* (52 C/4; 33° 0': 76° 14'), Blaini conglomerate. C. A. M., R, XIV, 307.
- Sadab, *Gulbarga* (56 D/6; 16° 33': 76° 29'), slipped mass of Bhima limestone. R. B. F., M, XII, 153.
- Sadarhalli, *Chitaldrug* (57 B/4; 14° 8': 76° 11'), manganese-ore. L. L. F., M, XXXVII, 1122.
- Sadaung, *Sagaing* (84 N/16; 22° 9': 95° 46'), salt works. E. H. P., R, LV, 25; LXII, 61.
- Sadda, *Belgaum* (48 I/2; 15° 40': 74° 6'), cavern in laterite. R. B. F., M, XII, 211.
- Saddle peak, *Andamans* (86 G/4; 13° 9': 93° 1'), igneous rocks. G. H. T., M, XXXV, 204.
- Sadhewali, *Attock* (38 P/14; 32° 36' 30": 71° 58'), oil seepage. E. H. P., M, XL, 436.
- Sadien, *Mergui* (96 I/15; 11° 22' 30": 98° 46'), tin-ore. T. H. H., R, XXXVII, 40.
- Sadiot, *Rawalpindi* (43 G/6; 33° 32': 73° 19'), U. Siwalik fossils. D. N. W., M, LI, 362.
- Sadkal, *Attock* (43 C/10; 33° 34' 30": 72° 38'), oil seepages. E. H. P., M, XL, 377=Sudkal.
- Sadni Ghag, *Ranchi* (73 A/3; 23° 18': 84° 12' 30"), waterfall. C. S. F., M, XLIX, 180.
- Sado, *Dir* (38 N/13; 34° 47': 71° 49'), amphibolite. H. H. H., R, XLV, 275.
- Sadoktaya, *Minbu* (84 L/3; 20° 26': 94° 15'), Burma earthquake, 1912. J. C. B., M, XLII, 63.
- Sadon, *Myitkyina* (92 G/15; 25° 22': 97° 53'), Burma earthquake, 1912. J. C. B., M, XLII, 57; aftershock; 125.
- Sadowal, *Jhelum* (43 H/2; 32° 40': 73° 10'), Cambrian-Eocene, sections. A. B. W., M, XIV, 152 (Pl. xvi).
- Sadri, *Jodhpur* (45 G/8; 25° 11': 73° 27'), Iceland spar. T. D. L., A. R., 1899, 45; M, XXXV, 17.
- Sadrial, *Attock* (43 C/11; 33° 21': 72° 31' 30"), *Conohyus*. G. E. P., R, LXI, 196 (Pl. xx).
- Sadwingyee, *Henzada* (85 N/4; 18° 2': 95° 6'), brine spring. W. T., R, VI, 67.
- Sa-en, *N. Shan States* (93 F/10; 22° 43': 97° 31'), Burma earthquake, 1912. J. C. B., M, XLII, 37=Se-in.
- Safapur, *Kashmir* (43 J/11; 34° 16': 74° 40'), Panjal traps. R. L., R, XI, 47.
- Saffrai, *Saffrai R., Naga Hills* (83 J/13; 26° 55': 94° 48'), coal seams. F. R. M., M, XII, 330; R. R. S., R, XXXIV, 214; H. H. H., R, XL, 295 (Pls. xlii-xlix).
- Saga, *L. Chindwin* (84 O/1; 21° 56' 30": 95° 8'), granite intrusive into dolerite. E. H. P., R, LX, 88.
- Saga, *U. Chindwin* (84 P/13; 22° 58' 30": 94° 50'), fault. E. H. P., R, LXIII, 105.
- Sagabin, *Mandalay* (93 B/7; 22° 18': 96° 16' 30"), Chaung-Magyi fault. T. D. L., M, XXXIX, pt. 2, 358.
- Sagad Buru (Sogadora), *Singbhum* (73 F/4; 22° 7' 30": 85° 14'), breccia conglomerate, Iron Ore series. E. H. P., R, LVI, 36.

- Sagadaung, *Mandalay* (93 B/4; 22° 8' : 96° 10'), gneiss. G. E. G., **A. R.**, 1898, 54.
- Sagaing, *Burma* (84 O/13; 21° 53' : 95° 59'), salt lakes. E. H. P., **M**, XL, 222; Archæan rocks. **R**, LX, 85; Burma earthquakes, 1912. J. C. B., **M**, XLII, 61, 120; aftershocks, 125, 131.
- Sagam, *Kashmir* (43 O/6; 33° 36' : 75° 16'), Triassic limestone. R. L., **R**, XI, 42; XIV, 29.
- Sagarzai, *Waziristan* (38 L/3; 32° 23' 30" : 70° 5' 30"), L. Eocene beds. M. S., **R**, LIV, 92, 94.
- Sagdhara, *Chota Udaipur* (46 F/15; 22° 26' : 73° 53'), granite boundary. G. V. H., **R**, LIX, 350.
- Saggar (Sugur), *Gulbarga* (56 D/15; 16° 26' : 76° 49'), Dharwar outlier. R. B. F., **R**, XXII, 37.
- Sagona (Sagauna), *Jubbulpore* (64 A/7; 23° 26' : 80° 25' 30"), Lameta beds, section. C. A. Matley, **R**, LIII, 150; dinosaur remains, 157.
- Sagoni (Sagodi), *Damoh* (55 M/14; 23° 38' : 79° 49'), Ganurgarh shales. F. R. M., **M**, VII, 85.
- Sagonia, *Bhopal* (55 F/5; 22° 46' : 77° 26' 30"), Bijawar quartzite (?). W. T. B., **M**, VI, 244 (Pl. vii, fig. 1).
- Sagowni, *Saugor* (54 P/7; 24° 23' 30" : 79° 27'), Semri (L. Vindhyan) beds. H. B. M., **M**, II, 30.
- Sagu, *Minbu* (84 L/16; 20° 13' : 94° 46'), Burma earthquake, 1912. J. C. B., **M**, XLII, 62; sounds, 112.
- Sagur, *Central Provs.* (55 I/13; 23° 51' : 78° 45'), Intertrappean beds. J. G. M., **M**, II, 203=Saugor.
- Sagwa, *Banswara* (46 I/7; 23° 18' : 74° 17' 30"), manganese-ore. L. L. F., **M**, XXXVII, 1157.
- Sagwan Ghat (Sagoghat), *Narsinghpur* (55 M/4; 23° 1' : 79° 5'), land shells in, Narbada alluvium. W. T., **M**, II, 286.
- Sagyin, *Mandalay* (93 B/3; 22° 17' 30" : 96° 4'), gem-bearing limestone. C. L. G., **R**, XXIX, 9; marble. T. D. L., **M**, XXXIX, pt. 2, 376.
- Sagyin (Sinzin), *Myingyan* (84 P/5; 26° 57' 30" : 95° 17'), lignite. E. H. P., **M**, XL, 233.
- Sagyin, *Wuntho* (83 P/12; 24° 6' : 95° 36'), brine spring. F. M., **R**, XXVII, 119.
- Sahajori, *Santal Parganas* (72 L/16; 24° 8' : 86° 50' 30"), coalfield. T. W. H. H., **M**, VII, 253 (Pl. ii); R. R. S., **M**, XLI, 40.
- Sahansadhara, *Dehra Dun* (53 J/3; 30° 23' : 78° 7' 30"), gypsum. H. B. M., **M**, III, pt. 2, 177=Sansaodarah.
- Sahanwari, *Chhindwara* (55 K/14; 21° 40' 30" : 78° 55'), quartz-pyroxene-gneiss, petrology. L. L. F., **R**, XXXIII, 190.
- Sahaul, *Rewah* (63 L/2; 24° 33' 30" : 82° 14'), L. Vindhyan limestone. P. N. D., **M**, XXXI, 148.
- Saharanpur, *United Provs.* (53 G/9; 29° 58' : 77° 33'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 126 (fig.).
- Sahbudra R., *Hoshangabad* (55 J/2; 22° 30' : 78° 11'), gorge in Pachmarhi hills. J. G. M., **M**, II, 266.
- Sahela, *Sirohi* (45 H/1; 24° 47' : 73° 6'), mica. E. H. P., **R**, LIX, 49.

- Sahibganj, *Santal Parganas* (72 O/12; 25° 14' 30": 87° 39'), laterite. V. B., **M**, XIII, 222; road-metal, 237; earthquake, 1897. E. V., **M**, XXIX, 309.
- Sahipur, *Rewah* (64 E/11; 23° 21': 81° 42' 30"), coal seam. T. W. H. H., **M**, XXI, 184, 244.
- Sabiya, *Dehra Dun* (53 F/14; 30° 37': 77° 53'), Krol limestone. G. E. P., **M**, LIII, 50.
- Sahngi, *Thayelmyo* (85 I/11; 19° 26': 94° 45'), brine spring. W. T., **R**, VI, 69.
- Sai R., *Idar* (45 H/3; 24° 17': 73° 1'), amphibolite-limestone. C. S. M., **M**, XLIV, 50 (figs.).
- Said Hamid, *Quetta-Pishin* (34 J/14; 30° 35': 66° 46'), boring for water. T. D. L., **R**, XL, 102.
- Saidabad, *Persia* (17 O/6; 29° 42': 55° 28'), crystalline limestone. G. H. T., **R**, LIII, 55.
- Saidapuram, *Nellore* (57 N/12; 14° 10' 30": 79° 45'), potstone. T. H. H., **M**, XXXIV, 61.
- Saidarampet (Sedarappattu), *Pondicherry* (58 M/13; 11° 59': 79° 45'), Cretaceous fossils. F. K., **R**, XXX, 59; *Orbitoides*. E. V., **R**, XXXVI, 190=Sydrapet.
- Saidba, *Singhbhum* (73 F/6; 22° 38' 30": 85° 20' 30"), folding in epidiorite. J. A. D., **M**, LIV, 88.
- Saidgi, *Waziristan* (38 L/5; 32° 56': 70° 24'), nummulitic limestone. F. H. S., **R**, XXVIII, 107; *Conulites*. L. M. D., **R**, LIX, 240.
- Saidope, *Palamanu* (73 A/1; 23° 46': 84° 8'), Barakar plants. O. F., **R**, XVI, 178.
- Saidpur, *Rangpur* (78 C/13; 25° 47': 88° 54'), earthquake, 1897. H. H. H., **M**, XXIX, 280.
- Saidpur, *Rawalpindi* (43 G/2; 33° 44' 30": 73° 4'), oil seepage. E. H. P., **M**, XL, 398=Sydpoor.
- Saiduha, *Santal Parganas* (72 P/11; 24° 19': 87° 31'), fire-clay. M. S., **R**, XXXVIII, 142.
- Saiduwali, *D. I. Khan* (38 P/4; 32° 11' 30": 71° 2'), Purple Sandstone. A. B. W., **M**, XVII, 233, 239.
- Saictetand, *Hazaribagh* (73 E/6; 23° 39': 85° 16'), striated boulders in Talchirs. A. J., **M**, LII, 18.
- Saifaldarra, *Miranzai* (38 O/2; 33° 34' 30": 71° 0' 30"), Jurassic limestone. C. L. G., **R**, XXV, 84.
- Saighan (valley), *Afghanistan* (33 M/12; 35° 10': 67° 45'), Jurassic plant beds. C. L. G., **R**, XIX, 241; recumbent folding. H. H. H., **M**, XXXIX, 3 (fig.); Plant-bearing series, 30; Red Grit series, 34; Tertiary beds, 37, 39.
- Saih Hatat, *Oman* (26 I/11; 23° 22': 58° 34'), Archean rocks. G. E. P., **M**, XXXIV, pt. 4, 8, 93.
- Saiji (Shiachon) La, *Ladakh* (52 G/2; 33° 35': 77° 5'), U. Triassic limestone. F. S., **M**, V, 346.
- Sailkupa, *Jessore* (79 E/2; 23° 41': 89° 14' 30"), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 328.
- Saimulda, *Jobat* (46 J/11; 22° 27' 30": 74° 37'), granite vein in Bijawar rocks. W. T. B., **M**, VI, 316.
- Sain Dhar, *Sirmur* (53 F/5; 30° 50': 77° 18'), Jutogh series. G. E. P., **M**, LIII, 16, 74 (fig.).

- Saindak, *Chagai* (30 G/11; 29° 16': 61° 34'), andesite. T. H. H., **R**, XXX, 128; Khirthar beds. E. V., **M**, XXXI, 196, 198, 257, 261 (Pl. ix, figs. 11, 15, 17 & 19); galena and copper-ore, 293.
- Saingaug, *Myingyan* (84 O/8; 21° 4': 95° 15' 30'), Red bed, Irrawadian series. E. H. P., **R**, LIX, 72.
- Saingchon (Zaingchaung), *Ramri I.* (85 E/11; 19° 24': 93° 35'), oil wells. E. H. P., **M**, XL, 187, 192.
- Saingde, *L. Chindwin* (84 J/10; 22° 31': 94° 30'), Natma series. E. H. P., **R**, LXII, 106; Pegu series, *Unio*. B. B. G., **R**, LXIII, 211 (Pl. v).
- Saingmaw, *Myitkyina* (92 C/6; 25° 35': 96° 17' 30'), quartz-porphyry. E. H. P., **R**, LXII, 112.
- Sainji, *Garhwal* (53 N/8; 30° 1' 30"; 79° 18'), rhyolite, petrology. C. S. M., **R**, XX, 163.
- Sainpuri, *Alwar* (54 A/10; 27° 44': 76° 38'), barytes. Sri Kumar Roy, **R**, LIV, 238.
- Sainra (Sahera), *Cutch* (41 A/16; 23° 6' 30": 68° 55'), Gaj series, mollusca. E. V., **M**, L, 238, 257, 310.
- St. Thomas' Mount, *Chingleput* (66 D/1; 13° 0': 80° 12'), charnockite and norite. T. H. H., **A. R.**, 1898, 23 (fig.); **M**, XXVIII, 136 (fig.), 156, 172; XXX, 119; analyses. G. S. L., **A. R.**, 1899, 6.
- Sainthoray (Sendurai), *Trichinopoly* (58 M/3; 11° 15': 79° 10' 30'), Ariyalur fossils. H. F. B., **M**, IV, 141.
- Saipur, *Rewah* (63 L/12; 24° 3': 82° 41' 30"), serpentinous marble. F. R. M., **R**, V, 20.
- Saipur, *Udaipur, C. P.* (64 N/3; 22° 28': 83° 11' 30"), coal seam. V. B., **R**, XV, 113.
- Sair, *Surguja* (64 N/1; 22° 48': 83° 1'), carbonaceous shale. V. B., **R**, XV, 111.
- Saira (Sahera), *Cutch* (41 A/13; 23° 47': 68° 53' 30"), irrigated tract. R. D. O., **M**, XLVI, 82.
- Saira, *Jamnui* (43 G/14; 33° 38' 30": 73° 57' 30"), hot spring. T. O., **M**, XIX, 116.
- Sairi, *Dehra Dun* (53 F/14; 30° 33' 30": 77° 50' 30"), ankerite. L. L. F., **M**, XXXVII, 122.
- Sairi, *Simla* (53 E/4; 31° 5': 77° 3'), Blaini beds. H. B. M., **M**, III, pt. 2, 38; pisolitic iron clay, Subathu series, 79; Chail limestone. G. E. P., **M**, LIII, 38, 92; quartzite, 93=Syri.
- Saitba, (Sahedba) *Singhbhum* (73 F/10; 22° 32' 30": 85° 36'), iron-ore beds. V. B., **M**, XVIII, 147.
- Sakalipur, *Birbhum* (73 M/14; 23° 42': 87° 52'), earthquake, 1897, fissure. R. D. O., **M**, XXIX, 325.
- Sakaltutan pass, *Iraq* (2 B/15; 34° 16': 44° 52'), anticline, Kurd series. E. H. P., **M**, XLVIII, 64 (Pl. x).
- Sakangyi, *Amherst* (95 E/13; 15° 50': 97° 47'), tin-ore. J. C. B., **R**, L, 104; adamellite. E. H. P., **R**, LXIII, 93.
- Sakangyi, *Mandalay* (93 C/5; 21° 59' 30": 96° 22'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 88.
- Sakar R., *Chhindwara* (55 N/2; 22° 42': 79° 10'), Jabalpur beds, junction with gneiss. H. B. M., **M**, X, 146,

- Sakaravoye (Sakarvayi), *Adilabad* (56 M/6; 19° 43' : 79° 19'), Bhima or Kurnool beds. W. K., **R**, X, 63.
- Sakarsanhalli, *Kolar* (57 L/1; 12° 47' 30" : 78° 13'), manganiferous limestone. E. H. P., **R**, LXIII, 124=Sakrasanhalli.
- Sakaw, *Myitkyina* (92 C/11; 25° 29' 30" : 96° 39'), mica. E. H. P., **R**, LXIII, 47.
- Sakchi, *Singhbhum*, Tata Iron Works, *see* Jamshedpur.
- Sakeriya, *Panna* (63 D/6; 24° 39' : 80° 17'), diamond workings. H. B. M., **M**, II, 73; E. V., **R**, XXXIII, 301 (figs.).
- Sakesar Mt., *Shahpur* (38 P/14; 32° 32' 30" : 71° 56'), geological structure. A. B. W., **M**, XIV, 243 (Pl. xxvi, fig. 1); alum shales, 301; Permian-Jurassic beds. E. H. P., **R**, LXII, 163.
- Sakhaoli, *Sirmur* (53 F/9; 30° 45' 30" : 77° 41' 30"), Chail limestone. G. E. P., **M**, LIII, 39.
- Sakhi Sarwar, *D. G. Khan* (39 K/5; 29° 59' : 70° 18'), Siwalik beds. W. T. B., **M**, XX, 224=Saki-Sarwa.
- Sakhi Zinda Pir, *Attock* (43 C/10; 33° 39' : 72° 36'), springs. E. H. P., **M**, XL, 383.
- Sakhir, *Persian Gulf* (11 J/12; 26° 3' : 50° 32'), raised beaches. G. E. P., **M**, XXXIV, pt. 4, 122 (Pl. x).
- Saki-Sarwa, *D. G. Khan* (39 K/5; 29° 59' : 70° 18'), Nahar beds (?). V. B., **R**, VII, 150=Sakhi Sarwar.
- Sakoli, *Bhandara* (55 O/16; 24° 5' : 79° 59'), Dharwar rocks. V. B., **R**, X, 180; L. L. F., **R**, LXV, 105, 107; S. K. C., **R**, LXV, 286.
- Sakra, *Korea* (64 J/1; 22° 58' : 82° 13'), Vindhyan boulders in Talchirs. L. L. F., **M**, XLI, 168.
- Sakrasanhalli, *Kolar* (57 L/1; 12° 47' 30" : 78° 13'), manganiferous marble. E. H. P., **R**, LIX, 92=Sakarsanhalli.
- Sakri, *Jubbulpore* (64 A/3; 23° 28' : 80° 8' 30"), manganiferous hematite. L. L. F., **M**, XXXVII, 809, 815, 826=Sukra.
- Sakun, *Jaipur* (45 N/2; 26° 42' : 75° 6'), foliated granite and pegmatites. C. S. M., **R**, XLV, 123.
- Sakunda hill, *Dehra Dun* (53 J/7; 30° 25' : 78° 17'), Blaini beds. H. B. M., **M** III, pt. 2, 67.
- Sakva, *Rajpipla* (46 G/9; 21° 51' : 73° 37'), building stone. P. N. B., **R**, XXXVII, 187.
- Salagang, *Tibet* (77 H/13; 28° 51' 30" : 89° 55'), Jurassic fossils. H. H. H., **M**, XXXVI, 160=Salakhang.
- Salai, *Nagpur* (55 O/6; 21° 31' 30" : 79° 26'), calc-granulite, Sausar series. L. L. F., **R**, LXV, 103.
- Salai, *Singhbhum* (73 F/7; 22° 19' : 85° 20'), iron-ore. H. H. H., **R**, LI, 13.
- Salak, *Salagh, Persian Gulf* (18 N/10; 26° 41' : 55° 44'), naphtha springs. G. E. P., **M**, XXXIV, pt. 4, 129, 148; gypsum beds, XLVIII, pt. 2, 33, 84.
- Salakhang, *Tibet* (77 H/13; 28° 51' 30" : 89° 55'), Jurassic fossils. H. H. H., **R**, XXXII, 166=Salagang.
- Salalkhera, *Narsinghpur* (55 J/14; 22° 41' : 78° 46' 30"), Deccan trap sill. E. H. P., **R**, LXII, 129.
- Salamabad, *Punch* (43 K/1; 33° 48' 30" : 74° 10'), bituminous limestone, section. D. N. W., **M**, LI, 318.

- Salambar, *Rawalpindi* (43 G/6;  $33^{\circ} 30' 30''$  :  $73^{\circ} 29'$ ), Chinji beds. D. N. W., **M**, LI, 355.
- Salamkong (Sanamkawng), *Putao* (92 E/13;  $27^{\circ} 50'$  :  $97^{\circ} 46'$ ), granite boundary. M. S., **R**, L, 248 (Pl. xxxv).
- Salangur lake, *Russian Turkestan* (42 K/6;  $37^{\circ} 32'$  :  $74^{\circ} 28'$ ), limestone, Sarikol series. H. H. H., **R**, XLV, 300.
- Salanpur, *Burdwan* (73 I/13;  $23^{\circ} 46'$  :  $86^{\circ} 52' 30''$ ), coal seam. R. R. S., **M**, XLI, 44, 47.
- Salari R., *Sind* (35 M/8;  $27^{\circ} 8'$  :  $67^{\circ} 17'$ ), hot spring. W. T. B., **M**, XVII, 86; Khirthar-Nari beds, section, 87 (Pl. iii, fig. 2).
- Salawas, *Jodhpur* (45 B/16;  $26^{\circ} 7'$  :  $72^{\circ} 59'$ ), concretionary patches in granite. T. D. L., **M**, XXXV, 53.
- Salba, *Korea* (64 I/7;  $23^{\circ} 20'$  :  $82^{\circ} 16'$ ), Archæan inlier. L. L. F., **M**, XLI, 162; coal seams, 190, 192, 218, 219.
- Salbaldee, *Betul* (55 G/15;  $21^{\circ} 26'$  :  $77^{\circ} 57'$ ), metamorphic rocks, trough fault and hot spring. W. T. B., **M**, VI, 279 (fig.); T. O., **M**, XIX, 135.
- Salbanni, *Manbhum* (73 I/8;  $23^{\circ} 4'$  :  $86^{\circ} 16'$ ), corundum and kyanite. H. W., **R**, XXIX, 50; J. A., D. **M**, LII, 210, 211; rutile. L. L. F., **R**, LIII, 297.
- Sale, *Myingyan* (84 I/9;  $20^{\circ} 50'$  :  $94^{\circ} 38'$ ), selenite in Irrawaddy beds. E. H. P., **M**, XL, 66.
- Sale, *S. Shan States* (93 D/13;  $20^{\circ} 48'$  :  $96^{\circ} 58' 30''$ ), Ordovician fossils. E. H. P., **R**, LXIII, 23, 90.
- Salebaddi, *Balaghat* (55 O/14;  $21^{\circ} 40'$  :  $79^{\circ} 53'$ ), manganese-ore. L. L. F., **M**, XXXVII, 750.
- Salei (Santai), *Hoshangabad* (55 F/7;  $22^{\circ} 19'$  :  $77^{\circ} 24' 30''$ ), Intertrappean fossils. H. B. M., **R**, VIII, 71.
- Saloik, *Aden* (7 C/14;  $13^{\circ} 32'$  :  $44^{\circ} 52'$ ), U. Cretaceous volcanic rocks, petrology. E. V., **R**, XXXVIII, 333=Sulaik.
- Salem, *Madras* (58 I/2;  $11^{\circ} 39'$  :  $78^{\circ} 9'$ ), crystal cavities in quartz. W. K., **M**, IV, 337; earthquakes, 365; hot spring. T. O., **M**, XIX, 149.
- Salempur, *Santal Parganas* (72 O/16;  $25^{\circ} 7' 30''$  :  $87^{\circ} 46'$ ), Rajmahal plants. O. F., **R**, IX, 39.
- Saletekri, *Balaghat* (64 C/13;  $21^{\circ} 47'$  :  $80^{\circ} 48' 30''$ ), Chilpi Ghat beds. W. K., **R**, XVIII, 187.
- Salgi Pat, *Ranchi* (73 A/10;  $23^{\circ} 36'$  :  $84^{\circ} 41'$ ), bauxite. C. S. F., **M**, XLIX, 167.
- Salgran, Salgraon, *Rawalpindi* (43 G/10;  $33^{\circ} 30'$  :  $73^{\circ} 35'$ ), Siwalik conglomerates. H. B. M., **R**, IX, 55; D. N. W., **M**, LI, 285, 361.
- Salgraon, *Chamba* (52 D/9;  $32^{\circ} 46'$  :  $76^{\circ} 32'$ ), boulders in Pangi slates. R. L., **R**, XI, 54.
- Salhang, *Tibet* (77 K/8;  $29^{\circ} 8'$  :  $90^{\circ} 22'$ ), water-parting. H. H. H., **M**, XXXVI, 134.
- Sali, *Hoshangabad* (55 F/11;  $22^{\circ} 28'$  :  $77^{\circ} 40'$ ), calcareous bands in Mahadeva series. J. G. M., **M**, II, 188.
- Salian (W.), *Punch* (43 F/12;  $34^{\circ} 2'$  :  $73^{\circ} 32'$ ), tepid spring. D. N. W., **M**, LI, 208, 313; Gondwana outlier, 244.
- Salian (Sailan), *Punch* (43 K/6;  $33^{\circ} 37'$  :  $74^{\circ} 23'$ ), Palandri stage, syncline. D. N. W., **M**, LI, 331 (Pl. x, fig. 2).



- Salibanta, *Betul* (55 J/4; 22° 8' : 78° 0'), hornblende-schist included in granite. J. G. M., **M**, II, 125.
- Salih, *Surguja* (64 I/16; 23° 8' : 82° 50'), coal seam. R. R. S., **M**, XLI, 82.
- Salimeta, *Chhindwara* (55 K/13; 21° 58' : 78° 55' 30'), fault in Deccan trap. L. L. F., **R**, XLVII, 119.
- Salimpur, *Etah* (54 I/9; 27° 47' : 78° 31'), geodetic station. R. D. O., **M**, XLII, 218.
- Salimpur, *Jaipur* (54 A/16; 27° 6' : 76° 58' 30'), flagstones. C. A. H., **R**, X, 92.
- Salin, *Minbu* (84 L/10; 20° 35' : 94° 40'), Burma earthquake, 1912. J. C. B., **M**, XLII, 62; sounds, 112.
- Salingyi, *L. Chindwin* (84 O/1; 21° 58' 30" : 95° 5'), pottery clay. E. H. P., **R**, LX, 43; salt works, 50; igneous rocks, 87.
- Salka, *Surguja* (64 I/15; 23° 22' : 82° 56' 30'), Talchir boulder bed. V. B., **R**, VI, 30.
- Salkhan, *Mirzapur* (63 P/2; 24° 34' : 83° 3'), inlier, L. Vindhyan. R. D. O., **M**, XXXI, 166=Sulkhun.
- Salking, *Singhbhum* (73 F/2; 22° 39' 30" : 85° 9' 30"), phyllites intercalated with lava flows. J. A. D., **M**, LIV, 88.
- Salma, *Bankura* (73 M/2; 23° 36' : 87° 1'), basic dyke. W. T. B., **M**, III, 141; R. R. S., **M**, XLI, 44.
- Saloi (Asloha), *Rawalpindi* (43 G/6; 33° 34' : 73° 26'), *Unio* in Siwalik beds. A. B. W., **R**, X, 120.
- Salonah, *Nowgong* (83 B/15; 26° 27' : 92° 59'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 30.
- Salpevadi, *Kolhapur* (47 L/3; 16° 18' : 74° 8'), white shales. H. C. J., **R**, LIV, 426.
- Salsette I., *Bombay* (47 A/16; 19° 15' : 72° 50'), volcanic ash bed. W. T. B., **M**, VI, 143; bauxite. L. L. F., **R**, LIV, 17; building stone, 18; water-supply, 35; lava flows, 47.
- Salt Lake (Kar), *Ladakh* (52 G/15; 33° 19' : 78° 0'), former extension. R. L., **M**, XXII, 68; salt deposits, 337; depth of lake. D. G. O., **R**, XLII, 127.
- Salumbar, *Mewar* (45 L/4; 24° 8' : 74° 3'), composite gneiss formed by injection of Aravalli phyllites. E. H. P., **R**, LXII, 171; basal conglomerate. LXIII, 144.
- Salun, *Punch* (43 K/2; 33° 31' : 74° 3'), bauxite. D. N. W., **M**, LI, 325.
- Salupara, *Merwara* (45 K/5; 26° 0' : 74° 16'), mica. T. H. H., **M**, XXXIV, 70.
- Salur, *Vizagapatam* (65 N/2; 18° 31' : 83° 12'), graphite. W. K., **R**, XIX, 155; hypersthene-granite. T. L. W., **A. R.**, 1900, 169.
- Salwa hill, *Ratnagiri* (47 H/11; 16° 29' : 73° 37'), denudation of trap. C. J. W., **R**, IV, 46 (fig.).
- Salwargi, *Bijapur* (56 D/7; 16° 27' : 76° 24' 30"), pre-trappean fault. R. B. F., **M**, XII, 155 (fig.).
- Sam Sing, *Darjeeling* (78 B/13; 26° 58' 30" : 88° 49'), copper-ore. H. H. H., **A. R.**, 1902, 14.
- Samach, *Sibi* (39 C/5; 29° 54' : 68° 22'), formation of plain. R. D. O., **R**, XXV, 26.
- Samaguting, *Naga Hills* (83 G/13; 25° 47' : 93° 47'), 'Dun' deposits. R. D. O., **M**, XIX, 228.
- Samail, *Oman* (26 I/3; 23° 18' : 58° 3'), Hatat series, Archæan. G. E. P., **M**, XXXIX, pt. 4, 8; igneous rocks, Oman series, 12, 98.

- Samalpatti, *Salem* (57 L/7 ; 12° 19' : 78° 29'), marble. E. H. P., **R**, LVIII, 24 ; magnesite, 28.
- Samalpur, *Idar* (46 E/6 ; 23° 40' 30" : 73° 21' 30"), muscovite-schist. C. S. M., **M**, XLIV, 64 (Pl. xi, fig. 4).
- Samana range, *Kohat* (38 K/14 ; 33° 33' : 70° 55'), Cretaceous-Eocene beds. C. L. G., **R**, XXV, 82 ; Cretaceous and Tertiary fauna. E. H. P., **R**, LIX, 15 ; LXII, 20.
- Samangarh, *Belgaum* (47 L/8 ; 16° 10' : 74° 24'), laterite. R. B. F., **M**, XII, 206 ; C. S. F., **M**, XLIX, 71.
- Samaria, *Rewah* (63 H/11 ; 24° 22' : 81° 42'), L. Vindhyan beds. R. D. O., **M**, XXXI, 121.
- Samasota R., *Udaipur*, C. P. (64 N/2 ; 22° 30' : 83° 9'), coal seams. V. B., **R**, XV, 114.
- Sambalpur, *Orissa* (64 O/15 ; 21° 28' : 83° 58'), porphyritic gneiss and quartz-schist. V. B., **R**, X, 182 ; Srimangal earthquake, 1918. M. S., **M**, XLVI, 34 ; water-supply. H. H. H., **R**, XLVII, 28.
- Sambera (Samda), *Cutch* (41 A/15 ; 23° 29' : 68° 51'), ossiferous conglomerate. A. B. W., **M**, IX, 269.
- Sambhar, *Jaipur* (45 N/1 ; 26° 55' : 75° 11'), salt lake. C. A. H., **R**, XLIII, 198 ; analyses of brine. H. W., **R**, XXII, 214 ; T. H. H., **R**, XXIV, 247 ; E. H. P., **R**, LV, 25 ; origin of lake brine. F. N., **A. R.**, 1902, 19 ; T. H. H., **R**, XXXVIII, 154.
- Sambulpuri, *Raigarh* (64 O/5 ; 21° 56' : 83° 27'), Talchir beds. V. B., **R**, VIII, 105.
- Samdari, *Jodhpur* (45 C/9 ; 25° 49' : 72° 34'), diorite dyke. T. D. L., **A. R.**, 1898, 34 ; Malani rhyolite. **M**, XXXV, 55.
- Samdi (Shyamdi), *Burdwan* (73 I/13 ; 23° 47' : 86° 55'), Talchir beds, section. W. T. B., **M**, III, 51 (fig.).
- Samelia, *Shahpura* (45 K/14 ; 25° 40' : 74° 49'), meteoric iron. L. L. F., **R**, LV, 329 (Pl. xxxvi) ; LXV, 161 (Pls. i, ii).
- Samliavaram (Samayapuram), *Trichinopoly* (58 J/9 ; 10° 55' 30" : 78° 45'), granite. H. F. B., **M**, IV, 33.
- Samin, *Garro Hills* (78 K/10 ; 25° 41' : 90° 40'), earthquake fault. R. D. O., **M**, XXIX, 147 (Pls. xiii & xlii) ; F. M. B., **M**, XXXV, 171.
- Samla (Semalya), *Burdwan* (73 M/2 ; 23° 45' : 87° 12'), coal seam. R. R. S., **M**, XLI, 46.
- Samlaji, *Idar* (46 E/6 ; 23° 41' : 73° 23'), epidote-rock. C. S. M., **M**, XLIV, 65 ; phyllites, 115.
- Samma, *Rawalpindi* (43 G/10 ; 33° 41' 30" : 73° 32' 30"), M. Siwalik beds. D. N. W., **M**, LI, 356.
- Samnapur, *Balaghat* (64 C/5 ; 21° 58' : 80° 29' 30"), bauxite, analyses. T. H. H., **R**, XXXII, 180 ; W. R. D., **R**, XXXVII, 214 ; C. S. F., **M**, XLIX, 135 ; manganese-ore. L. L. F., **M**, XXXVII, 311, 727.
- Samod, *Jaipur* (45 M/16 ; 27° 12' : 75° 48'), Alwar quartzites. A. M. H., **R**, LIV, 363.
- Samphar, *Darjeeling* (78 B/9 ; 26° 58' : 88° 30' 30"), copper-ore. F. R. M., **M**, XI, 78 ; arsenical pyrites. **R**, XV, 57 ; P. N. B., **R**, XXIII, 258.
- Sampur (Shyampur), *Manbhum* (73 I/9 ; 23° 46' : 86° 42' 30"), coal seam. W. T. B., **M**, III, 59=Shampur.

- Samram, *Saraikela* (73 J/2 ; 22° 44' 30" : 86° 4'), alluvial gold. E. H. P., **R**, LVI, 29.
- Samri Pat, *Ranchi* (73 A/11 ; 23° 22' : 84° 31'), bauxite. C. S. F., **M**, XLIX, 173.
- Samria, *Mewar* (45 O/4 ; 25° 6' : 75° 5' 30"), U. Vindhyan shales. A. L. C., **R**, LX, 176.
- Samsundarpur, *Burdwan* (73 M/2 ; 23° 44' : 87° 3'), coal seam. W. T. B., **M**, III, 104.
- Samugarangapuram, *Tinnevely* (58 H/11 ; 8° 20' : 77° 42'), travertine. R. B. F., **M**, XX, 78.
- Samul Khankah, *Attock* (43 C/6 ; 33° 38' : 72° 23'), springs. E. H. P., **M**, XL, 383.
- Samuli, *Afghanistan* (30 O/15 ; 29° 28' : 63° 54'), basalt. T. H. H., **R**, XXX, 128.
- Samursai, *Kharsawan* (73 F/10 ; 22° 41' 30" : 85° 44'), Newer Dolerite dyke. J. A. D., **M**, LIV, 134 (Pl. vii, fig. 1).
- San Tribida, *Talcher* (73 G/4 ; 21° 2' : 85° 3'), iron-smelting. L. L. F., **R**, LIII, 273.
- Sanag, *Bijapur* (47 P/11 ; 16° 17' 30" : 75° 37'), siliceous limestone, Kaladgi series, natural lake. R. B. F., **M**, XII, 119.
- Sanaing, *Thayetmyo* (85 M/2 ; 19° 42' 30" : 95° 1'), anticline, Pegu series. H. H. H., **R**, XLVII, 32.
- Sanand Ry. Stn., *Ahmadabad* (46 A/8 ; 23° 1' 30" : 72° 23'), boring for water. T. D. L., **R**, XI, 104 ; XLI, 77.
- Sanani Gadh, *Naini Tal* (53 O/7 ; 29° 20' : 79° 16'), travertine, waterfalls. C. S. M., **M**, XXIV, 94.
- Sanassyhalli, *Bellary* (57 B/9 ; 14° 59' : 76° 32'), quartz reef. R. B. F., **M**, XXV, 159=Saniasihalli.
- Sanche R., *Tavoy* (95 J/8 ; 14° 6' : 98° 20'), wolfram veins. T. H. H., **R**, XXXVIII, 59.
- Sanchi, *Tavoy* (95 J/3 ; 14° 26' : 98° 9'), quartzite, Mergui series. J. C. B., **M**, XLIV, 183.
- San-chia-ch'ang, *Yunnan* (101 H/14 ; 24° 39' : 101° 59' 30"), copper mine. J. C. B., **M**, XLVII, 117.
- Sanctoria, *Burdwan* (73 I/14 ; 23° 42' : 86° 50'), coal seam. R. R. S., **M**, XLI, 47.
- Sand Kulan (Sanr), *Hazaribagh* (73 E/1 ; 23° 49' 30" : 85° 14' 30"), Panchet beds, section. A. J., **M**, LII, 133.
- Sandadih, *Kharsawan* (73 F/14 ; 22° 45' : 85° 50'), sericitised granite. J. A. D., **M**, LIV, 110.
- Sandai (Syndai), *Jaintia Hills* (83 C/4 ; 25° 11' : 92° 9'), earthquake, 1897, change of level. R. D. O., **M**, XXI, 171.
- Sandakphu, *Sikkim* (78 A/4 ; 27° 6' : 88° 0'), geodetic station. R. D. O., **M**, XLII, 253.
- Sandan, *Cutch* (41 A/16 ; 23° 1' : 69° 0'), Tertiary beds, section. A. B. W., **M**, IX, 279=Sandhan.
- Sandanandapuram, *Vizagapatam* (65 N/12 ; 18° 14' 30" : 83° 33'), rose-quartz. L. L. F., **M**, XXXVII, 212 ; manganese-ore, 508-9, 599, 1075.
- Sandapuram, *Vizagapatam* (65 N/7 ; 18° 26' : 83° 16'), pyroxeno. L. L. F., **M**, XXXVII, 127 ; apatite-spandite rock, 255, 1115.
- Sandara, *Chamba* (43 P/14 ; 32° 32' 30" : 75° 52'), Carboniferous limestone. C. A. M., **R**, XV, 3f

- Sanderao, *Jodhpur* (45 G/3 ; 25° 18' : 73° 10' 30"), Aravalli quartzite, contact with granite. T. D. L., **M**, XXXV, 72.
- Sandhan, *Cutch* (41 A/16 ; 23° 1' : 69° 0'), earthquake, 1819. R. D. O., **M**, XLVI, 109=Sandan.
- Sandi, *Yasin* (42 H/7 ; 36° 25' 30" : 73° 22'), brecciated limestone. H. H. H., **R**, XLV, 295.
- Sando, *Cutch* (41 E/1 ; 23° 55' : 69° 1'), Indus flood, 1826. R. D. O., **M**, XLVI, 87.
- Sandoa, *Kulu* (53 E/1 ; 31° 48' : 77° 2' 30"), carbonaceous shales. H. B. M., **M**, III, pt. 2, 58.
- Sandoway, *Arakan* (85 J/7 ; 18° 28' : 94° 22'), steatite. W. T., **M**, X, 338 ; lignite. R. R. S., **M**, XLI, 68 ; earthquakes : Burma, 1912. J. C. B., **M**, XLII, 69 ; Srimangal, 1918. M. S., **M**, XLVI, 34 ; Pegu, 1930. J. C. B., **R**, LXV, 240.
- Sandoway R., *Arakan* (85 J/12 ; 18° 9' : 94° 42'), hot spring. W. T., **M**, X, 352 ; T. O., **M**, XIX, 150.
- Sandra, *Sirmur* (53 F/5 ; 30° 49' : 77° 17'), Blaini limestone. G. E. P., **M**, LIJI, 26.
- Sandrapali, *Karimnagar* (56 N/13 ; 18° 47' : 79° 52'), coal seam (?). T. W. H. H., **R**, XI, 21 ; **M**, XVIII, 183 ; R. R. S., **M**, XLI, 99.
- Sandur, *Madras* (57 A/12 ; 15° 5' : 76° 33'), Dharwar syncline. R. B. F., **R**, XIX, 103 ; XXII, 24 ; trap flow. **M**, XXV, 121.
- Sang (? Sungri), *Jammu* (43 K/15 ; 33° 21' : 74° 47' 30"), Kiol quartzites. R. L., **R**, IX, 160.
- Sang, *Rawalpindi* (43 G/6 ; 33° 41' : 73° 25'), Chinji beds. D. N. W., **M**, LI, 355.
- Sangajata, *Singhbhum* (73 F/7 ; 22° 25' : 85° 28'), basic sills. E. H. P., **R**, LXI, 99.
- Sangal, *Idar* (46 E/6 ; 23° 34' 30" : 73° 25'), Delhi quartzite and Phyllite series. C. S. M., **M**, XLIV, 95, 112.
- Sangal, *Las Bela* (35 G/10 ; 25° 30' : 65° 44'), Makran series, mollusca. E. V., **M**, L, 424, 427, 429, 436.
- Sangameshwar, *Ratnagiri* (47 G/12 ; 17° 11' : 73° 34'), hot spring. T. O., **M**, XIX, 105 ; laterite. C. S. F., **M**, XLIX, 94.
- Sangar Marg, *Jammu* (43 K/12 ; 33° 12' : 74° 38'), iron-ore. H. B. M., **R**, IX, 54 ; coalfield. T. D. L., **R**, XXI, 62 (Pl. viii) ; R. R. S., **M**, XXXII, 210 (fig.) ; XLI, 101 ; bauxite. C. S. F., **M**, XLIX, 104.
- Sangarh pass, *D. G. Khan* (39 J/6 ; 30° 42' : 70° 30'), sulphur mines. W. T. B., **M**, XX, 228, 230.
- Sangatpur, *Amritsar* (44 M/3 ; 31° 18' : 75° 2'), geodetic station. R. D. O., **M**, XLII, 232.
- Sangbast, *Persia* (23 M/13 ; 35° 59' : 59° 48'), Nummulitic series, section. C. L. G., **R**, XIX, 64.
- Sangcha Talla, *Almora* (62 B/1 ; 30° 46' : 80° 10'), Jura-Cretaceous boundary. C. L. G., **M**, XXIII, 155 ; Carnic ammonites. C. D., **M**, XXXVI, 337.
- Sanghar, *Thar Parkar* (40 B/16 ; 26° 3' : 68° 57'), alkaline lakes. G. C., **M**, XLVII, 262.
- Sang-i-Ajal, *Afghanistan* (29 J/15 ; 34° 25' : 62° 50'), Jurassic plant beds, section. C. L. G., **R**, XIX, 53.
- Sang-i-Dangi, *Persia* (25 E/3 ; 27° 26' : 57° 5'), Eocene limestone. G. E. P., **R**, XLVIII, pt. 2, 105.

- Sangiot, *Punch* (43 K/6 ; 33° 34' : 74° 16' 30"), ironstone shales. D. N. W., **M**, LI, 312.
- Sang-i-Tu, *Persia* (24 C/1 ; 29° 48' : 56° 6'), cupriferous limestone. G. E. P., **M**, XLVIII, pt. 2, 69 ; diorite sill, 72 ; Pliocene lavas and tuffs, 92.
- Sangla, *Bashahr* (53 I/7 ; 31° 25' : 78° 16'), 'central gneiss'. C. A. M., **R**, X, 219.
- Sangla, *Punch* (43 K/6 ; 33° 40' : 74° 18'), sulphurous spring. D. N. W., **M**, LI, 208 ; limestone band in Murree beds, 309.
- Sangla, *Shekhupura* (44 E/6 ; 31° 42' 30" : 73° 22' 30"), Purana quartzites. A. M. H., **R**, XLIII, 233 ; E. H. P., **M**, XL, 455.
- Sanglakh range, *Afghanistan* (38 B/10 ; 34° 33' : 68° 35'), Helmand series. H. H. H., **M**, XXXIX, 25.
- Sangliani, *Punch* (43 K/6 ; 33° 37' 30" : 74° 20'), Zewan beds. D. N. W., **M**, LI, 249, 251, 312.
- Sangmang (Tangmang), *Khasi Hills* (78 O/16 ; 25° 13' : 91° 52' 30"), Sylhet trap. P. N. B., **A. R.**, 1901, 23.
- Sangni, *Chamba* (43 P/13 ; 32° 50' : 75° 56'), Blaini conglomerate. C. A. M., **R**, XVIII, 82.
- Sangrah, *Sirmur* (53 F/6 ; 30° 41' 30" : 77° 24' 30"), folding in Blaini beds. G. E. P., **M**, LIII, 32, 128.
- Sangraveram (Sankarapuram), *S. Arcot* (58 I/13 ; 11° 53' : 78° 55'), iron-ore beds. W. K., **M**, IV, 292.
- Sangrua, *Jaipur* (45 M/6 ; 27° 34' 30" : 75° 19'), anticline, Alwar series. A. M. H., **R**, I, IV, 367.
- Sangsila, *Sibi* (39 C/16 ; 29° 5' 30" : 68° 52'), natural bridge. W. T. B., **M**, XX, 137, 207 (Pl. i)=Singsila.
- Sanhat, *Korea* (64 I/11 ; 23° 29' : 82° 31'), coalfield. L. L. F., **M**, XLI, 190 (Pl. xxxi)=Sunhat.
- Sanhka, *Myitkyina* (92 C/6 ; 25° 41' : 96° 21'), chromite. E. H. P., **R**, LXIII, 30=Sanaka.
- Sanhka Hka, *Myitkyina* (92 C/5 ; 25° 46' : 96° 17'), ultra basic rocks. E. H. P., **R**, LXIII, 99.
- Saniasihalli, *Bellary* (57 B/9 ; 14° 59' : 76° 32'), Dharwar beds, section. R. B. F., **M**, XXV, 126=Sanassyhalli.
- Sanjauli, *Simla* (53 E/4 ; 31° 6' : 77° 12'), building stone. H. H. H., **R**, XLIII, 16 ; G. E. P., **M**, LIII, 112.
- Sanju, *E. Turkestan* (51 K/8 ; 37° 11' : 78° 29'), Cretaceous fossils. F. S., **R**, VII, 50.
- Sanjwal, *Attok* (43 C/5 ; 33° 46' : 72° 26'), dam-sites. E. H. P., **R**, LIX, 30.
- Sanka, *Myitkyina* (92 C/6 ; 25° 41' : 96° 21'), jadeite. F. N., **R**, XXVI, 27 ; basalt, petrology. M. B., **R**, XXVIII, 105=Sanhka.
- Sankai, *Singhbhum* (73 F/5 ; 22° 46' 30" : 85° 20'), staurolite in mica-schist. J. A. D., **M**, LIV, 45.
- Sankara, *Nellore* (57 N/11 ; 14° 15' : 79° 44' 30"), samarskite, allanite and cyrtolite. G. H. T., **R**, XLJ, 210 (Pls. xiii-xv).
- Sankaridrug, *Salem* (58 E/15 ; 11° 28' 30" : 77° 52'), mica. T. H. H., **M**, XXXIV, 67 ; massive garnet. G. S. L., **R**, XXVII, 68 ; marble, analysis. E. H. P., **R**, LX, 27=Sunkerry Droog.

- Sankera hills, *Santal Parganas* (72 P/7 ; 24° 17' : 87° 19'), lead-ore. L. L. F., **R**, LIII, 283.
- Sankh, *Hazaribagh* (72 H/14 ; 24° 34' : 85° 56'), leucopyrite. F. R. M., **R**, VII, 42.
- Sankheda, *Baroda* (46 F/12 ; 22° 10' : 73° 35'), glass-making sands. H. H. H., **R**, LII, 294.
- Sankho, Sankoo, *Ladakh* (43 N/15 ; 34° 17' : 75° 58'), talcose and chloritic schists. F. S., **M**, V, 347 ; granitoid gneiss. R. L., **R**, XIV, 19 ; **M**, XXII, 296.
- Sankrao, *Aligarh* (53 L/12 ; 28° 2' 30" : 78° 32'), geodetic station. R. D. O., **M**, XLII, 218.
- Sannasil Haruvu, *Sandur* (57 A/8 ; 15° 9' : 76° 25'), manganesc-ore. L. L. F., **M**, XXXVII, 1012-3, 1021.
- Sanni, *Kalat* (34 O/12 ; 29° 9' 30" : 67° 34'), sulphur and alunogen. G. H. T., **R**, XXXVIII, 214 ; G. C., **R**, L, 130 (Pl. xxix)=Sunnee.
- Sanodo, *Bijawar* (54 P/3 ; 24° 20' : 79° 0' 30"), U. Bijawar beds. H. B. M., **M**, II, 39.
- Sanoghar, *Chitral* (42 D/7 : 36° 16' : 72° 25'), hematite. L. L. F., **R**, LIV, 24.
- Sanpalli (Samballi), *Coimbatore* (58 E/13 ; 11° 49' : 77° 49'), dam-site. T. D. L., **R**, XL, 97.
- Sansodarah, *Dehra Dun* (53 J/3 ; 30° 23' : 78° 7' 30"), hot spring. T. O., **M**, XIX, 118=Sahansadhara.
- Santapara, *Talcher* (73 H/1 ; 20° 54' : 85° 14'), exfoliation of gneiss. W. T. B., **M**, I, 42 (fig.).
- Santaravur, *Guntur* (66 A/5 ; 15° 48' : 80° 15' 30"), marine shells in alluvium. R. B. F., **M**, XVI, 93.
- Santavari, *Kadur* (48 O/14 ; 13° 31' : 75° 48'), Dharwar schists and trap flows. R. B. F., **R**, XXI, 48.
- Santhawari, *Gurgaon* (54 A/13 ; 27° 54' : 76° 58'), anticline in Alwar series. A. M. H., **M**, XLV, 37.
- Santipur, *Nadia* (79 A/8 ; 23° 14' : 88° 26'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 224.
- Santok Mukh, *Sibsagar* (83 J/13 ; 26° 52' : 94° 48'), sections of alluvium. H. B. M., **M**, IV, 441.
- Santow, *Gwalior* (54 J/4 ; 26° 6' : 78° 8'), iron-ore. C. A. H., **R**, III, 42.
- Santragodia, *Nilgiri, E. States* (73 K/11 ; 21° 23' : 86° 42'), potstone. W. T. B., **M**, I, 261 ; **R**, V, 62.
- San-tui-tzu, *Yunnan* (101 F/14 ; 26° 35' : 101° 51'), diorite with serpentine. J. C. B., **R**, LIV, 334.
- Sanwara, *Sirohi* (45 D/13 ; 24° 52' : 72° 57') brecciated quartzite, Aravalli. E. H. P., **R**, LIX, 104.
- Sanwari, *Ohhindwara* (55 K/14 ; 21° 41' : 78° 55'), thrust-faulting. E. H. P., **R**, LIII, 24.
- Sanyon Didag, *Sirmur* (53 F/5 ; 30° 50' : 77° 22'), recumbent fold, Jutogh series. E. H. P., **R**, LX, 22.
- Sanzal, *Quetta-Pishin* (34 J/9 ; 30° 50' : 66° 30' 30"), Baluchistan earthquake, 1892. C. L. G., **R**, KXVI, 57 (Pls. iv-vi).
- Sao (Sabo), *Chamba* (52 D/2 ; 32° 36' : 76° 13'), trap rocks. C. A. M., **R**, XVIII, 85.
- Saokar (Sheokur), *Jodhpur* (40 O/6 ; 25° 43' : 71° 29'), travertine. W. T. B., **R**, X, 11.

- Saoligarh, *Betul* (55 F/8 ; 22° 13' : 77° 29'), Deccan trap flows. J. G. M., **M**, II, 218 ; heulandite, 220.
- Saonghi-Atri, *Balaghat* (55 O/13 ; 21° 45' : 79° 51'), manganese-ore. H. H. H., **R**, XLVII, 21.
- Saonra, *Bhandara* (55 O/14 ; 21° 33' : 79° 56' 30"), augite-norite, charnockite series. K. H., **R**, LV, 256 (Pl. xxxii, fig. 2).
- Saonri, *Balaghat* (55 O/14 ; 21° 41' 30" : 79° 48'), manganese-ore. L. L. F., **M**, XXXVII, 436, 460, 713.
- Saonri, *Narsinghpur* (55 J/14 ; 22° 43' 30" : 78° 59' 30"), Mahadeva series, unconformity. E. H. P., **R**, LXI, 112 ; fire-clay. LXII, 34.
- Sapghota forest, *Nagpur* (55 K/14 ; 21° 33' : 78° 56'), Archæan rocks. E. H. P., **R**, LIX, 76.
- Sapgora, *Mayurbhanj* (73 J/3 ; 22° 26' : 86° 14' 30"), alluvial gold. P. N. B., **R**, XXXI, 170.
- Sapnadand, *Surghuja* (64 N/5 ; 22° 52' : 83° 19'), bauxite. C. S. F., **M**, XLIX, 153.
- Sar Khun, *Persia* (10 I/9 ; 31° 45' : 50° 38' 30"), Cretaceous-Bakhtiyari unconformity. G. E. P., **M**, XXXIV, 82 (Pl. iv).
- Sara, *Rawalpindi* (43 G/1 ; 33° 47' : 73° 7'), sulphurous spring. E. H. P., **M**, XL, 398.
- Saradhna, *Merwara* (45 J/8 ; 26° 5' 30" : 74° 15' 30"), Alwar quartzite-gneiss contact. C. A. H., **R**, XIV, 297.
- Sarai, *Swat* (38 N/14 ; 34° 44' : 71° 54'), crystalline limestone. H. H. H., **R**, XLV, 275.
- Sarai Pung, *Lakhimpur* (83 M/7 ; 27° 19' : 95° 29'), salt-lick. E. H. P., **M**, XL, 294.
- Saraiak, *Afghanistan* (33 M/12 ; 35° 11' : 67° 42'), Cretaceous-Tertiary unconformity. H. H. H., **M**, XXXIX, 58 (fig. & Pl. vii).
- Saraidanr, *Shahabad* (63 P/14 ; 24° 38' : 83° 51'), spiral impression in Vindhyan limestone. E. J. Beer, **R**, L, 139 (Pl. xxx).
- Saraikala, *Eastern States* (73 F/14 ; 22° 42' : 85° 56'), granite-gneiss boundary. V. B., **M**, XVIII, 135.
- Saraili (Sirili), *Patiala* (54 A/1 ; 27° 56' : 76° 2'), mica. P. N. B., **R**, XXXIII, 58.
- Saraktash, *Kashgar* (42 I/16 ; 39° 0' : 74° 58'), metamorphic rocks. H. H. H., **R**, XLV, 319.
- Sarameti range, *Naga Hills* (83 O/2 ; 25° 44' : 95° 2'), altitudes. E. H. P. **R**, XLII, 255.
- Sarangapully, *Guntur* (56 P/14 ; 16° 41' : 79° 45' 30"), old diamond workings. W. K., **M**, VIII, 110.
- Sarangarh, *Eastern States* (64 O/2 ; 21° 35' : 83° 4' 30"), lime burning. F. H. S., **A. R.**, 1898, 46.
- Sarangpali, *Adilabad* (56 N/9 ; 18° 57' : 79° 30' 30"), Talehir beds. T. W. H. H., **R**, XI, 19.
- Sarangwa, *Jodhpur* (45 G/11 ; 25° 17" : 73° 30' 30"), marble. C. A. H., **R**, XIII, 250 ; T. D. L., **M**, XXXV, 17.
- Sarara, *Mewar* (45 H/16 ; 24° 8' 30" : 73° 49' 30"), igneous rocks, Aravalli. E. H. P., **R**, LXIII, 141.
- Saraswahi, *Jubbulpore* (64 A/6 ; 23° 37' 30" : 80° 19'), bauxite. C. S. F., **M**, XLIX, 116.

- Sarathi, *Bhandara* (55 O/16;  $21^{\circ} 5' : 79^{\circ} 56'$ ), kyanite-rocks. S. K. C., **R**, LXV, 293.
- Sardhar, *Kathiawar* (41 J/16;  $22^{\circ} 8' : 70^{\circ} 59'$ ), trap dyke. F. F., **M**, XXI, 100.
- Sardi, *Jhelum* (43 D/10;  $32^{\circ} 41' : 72^{\circ} 43'$ ), section in gorge. A. B. W., **M**, XIV, 180; C. S. M., **R**, XXIV, 23 (Pl. i, fig. 2); L. L. F., **R**, LXV, 117; bi-pyramidal quartz crystals. T. H. H., **R**, XXIV, 231; E. H. P., **M**, XL, 476.
- Sardih, *Korea* (64 I/11;  $23^{\circ} 18' 30'' : 82^{\circ} 32'$ ), dolerite sill. L. L. F., **M**, XLI, 157; coal seams, 190, 218.
- Sardih, *Rewah* (64 E/15;  $23^{\circ} 17' : 81^{\circ} 51' 30''$ ), coal seam. T. W. H. H., **M**, XXI, 244.
- Sardoi, *Idar* (46 E/6;  $23^{\circ} 34' : 73^{\circ} 16'$ ), Delhi quartzite. C. S. M., **M**, XLIV, 91.
- Sargaon, *Sirmur* (53 F/5;  $30^{\circ} 56' 30'' : 77^{\circ} 16' 30''$ ), Simla-Blaini series, boundary. G. E. P., **M**, LIII, 22.
- Sargidih, *Kharsawan* (73 F/10;  $22^{\circ} 43' : 85^{\circ} 42'$ ), granulation in granite. J. A. D., **M**, LIV, 110; quartzite band in granite, 116.
- Sargu hill, *Quetta-Pishin* (34 J/6;  $30^{\circ} 39' : 66^{\circ} 22'$ ), aphanite (?), petrology. T. H. H., **R**, XXX, 127.
- Sarhai Tangi, *Persia* (31 B/2;  $26^{\circ} 30' : 60^{\circ} 5'$ ), high-level gravels. G. H. T., **R**, LIII, 67.
- Sarhan, *Bashahr* (53 E/14;  $31^{\circ} 30' 30'' : 77^{\circ} 48'$ ), schists and gneiss. C. A. M., **R**, X, 218; XIX, 69; hornblende-rock, petrology, 77.
- Sarhandi, *Rawalpindi* (43 G/3;  $33^{\circ} 28' : 73^{\circ} 8'$ ), U. Siwalik overlap. D. N. W., **M**, LI, 342.
- Sari (N.), *Punch* (43 K/1;  $33^{\circ} 58' : 74^{\circ} 9'$ ), Laki shales. D. N. W., **M**, LI, 297.
- Sari (S.), *Punch* (43 K/1;  $33^{\circ} 48' : 74^{\circ} 10' 30''$ ), bituminous limestone. D. N. W., **M**, LI, 265.
- Sari Dasht, *Makran* (31 O/7;  $25^{\circ} 28' : 63^{\circ} 16'$ ), Makran series, mollusca. E. V., **M**, L, 39, 57, 73, etc.
- Sariakandi, *Bogra* (78 H/9;  $24^{\circ} 53' : 89^{\circ} 34'$ ), earthquake, 1897, change of level. R. D. O., **M**, XXIX, 322.
- Sar-i-Chasma, *Afghanistan* (38 B/7;  $34^{\circ} 27' : 68^{\circ} 29' 30''$ ), crystalline limestone. H. H. H., **M**, XXXIX, 73.
- Sar-i-Iskar, *Afghanistan* (38 A/10;  $35^{\circ} 32' : 68^{\circ} 32'$ ), trap dykes. C. L. G., **R**, XX, 22.
- Sarik jilgha, *Russian Turkestan* (42 K/3;  $37^{\circ} 23' : 74^{\circ} 3'$ ), granite. H. H. H., **R**, XLV, 302.
- Sarikoram pass, *Kashgur* (42 O/3;  $37^{\circ} 22' : 75^{\circ} 7'$ ), limestone, Wakhan series. H. H. H., **R**, XLV, 311.
- Saripul, *Afghanistan* (33 M/11;  $35^{\circ} 19' : 67^{\circ} 38'$ ), Cretaceous limestone. H. H. H., **M**, XXXIX, 66.
- Sar-i-Zangal (Dar Tangal), *Persia* (24 B/9;  $30^{\circ} 54' : 56^{\circ} 36'$ ), coal seams. G. H. T., **R**, LIII, 72.
- Sarkai, *Waziristan* (38 L/3;  $32^{\circ} 21' 30'' : 70^{\circ} 6'$ ), Siwalik conglomerates. M. S., **R**, LIV, 94.
- Sarkara, *Bijnor* (53 K/11;  $29^{\circ} 16' : 78^{\circ} 32' 30''$ ), geodetic station. R. D. O., **M**, XLII, 245.
- Sarma, *Surguja* (64 I/15;  $23^{\circ} 16' 30'' : 82^{\circ} 54'$ ), Talchir sandstones (?). V. B., **R**, VI, 30.



- Sarn, *Jodhpur* (40 O/14; 25° 40' 30": 71° 46' 30"), tinguaito. T. D. L., **M**, XXXV, 75; petrology, 92.
- Sarobi, *Afghanistan* (38 F/10; 34° 34' 30": 69° 43'), Megalodon limestone. H. H. H., **M**, XXXIX, 22; Siwalik beds, 43.
- Sarofardah, *Persia* (24 B/9; 30° 54': 56° 36'), Jurassic plants. G. H. T., **R**, LIII, 57; coal seam, 72.
- Sarola, *Korea* (64 I/7; 23° 17': 82° 20'), dolerite dyke. L. L. F., **M**, XLI, 157.
- Saroli, *Alwar* (54 A/10; 27° 35': 76° 44'), dome in Alwar quartzites. A. M. H., **M**, XLV, 42; Kushalgarh limestone, 60; hornstone breccia, 65.
- Sarpa R., *Rewah* (64 E/8; 23° 14': 81° 28'), Lameta limestone, analysis. T. W. H. H., **R**, XIV, 320.
- Sarpi Sangur (Sarati), *Kashmir* (43 K/10; 33° 36': 74° 31'), dolerite sills. D. N. W., **M**, LI, 220 (Pl. ii, fig. 1); petrology, 222.
- Sarroli, *Jubbulpore* (64 A/3; 23° 24': 80° 12'), iron-ore. F. R. M., **R**, XVI, 98.
- Sarsa La, *Ladakh* (52 B/16; 34° 6': 76° 47'), Triassic beds. R. L., **M**, XXII, 176.
- Sarsari, *Ajmer* (45 J/7; 26° 19': 74° 26'), massive garnet. H. H. H., **R**, XLVIII, 17; E. H. P., **R**, LVIII, 27.
- Sarsawa, *Jammu* (43 G/14; 33° 36' 30": 73° 45' 30"), Mang stage, syncline. D. N. W., **M**, LI, 275; fault, 326.
- Sarshatali, *Burdwan* (73 M/1; 23° 48': 87° 2'), basal beds, Barakar stage. E. H. P., **R**, LXII, 141.
- Sarsi, *Rewah* (64 E/5; 23° 49' 30": 81° 18'), Raniganj plants. O. F., **R**, XIII, 186; T. W. H. H., **R**, XIV, 132.
- Sarsop, *Jaipur* (54 B/4; 26° 10' 30": 76° 4'), Aravalli quartzites and schists. A. M. H., **R**, LIV, 356.
- Sarsuva, *Chota Udaipur* (46 F/11; 22° 28' 30": 73° 43' 30"), Chumpaner conglomerate. G. V. H., **R**, LIX, 346.
- Sarte, *Adilabad* (56 M/5; 19° 49': 79° 20'), coal seam. W. T. B., **R**, I, 24=Sasti.
- Saru, *Rewah* (63 L/3; 24° 22': 82° 2'), Bijawar conglomerate. R. D. O., **M**, XXXI, 131.
- Saru hill, *Ranchi* (73 A/6; 23° 30': 84° 28'), aluminous laterite. C. S. F., **M**, XLIX, 171.
- Saruda, *Singhbhum* (73 F/2; 22° 38': 85° 12'), hematite-quartzite. J. A. D., **M**, LIV, 26, 117, 163; vesicular structure in epidiorite, 76.
- Sarugara, *Singhbhum* (73 F/6; 22° 35': 85° 16'), folding in epidiorite. J. A. D., **M**, LIV, 88.
- Sarwa (Saruapani), *Santal Parganas* (72 P/7; 24° 24' 30": 87° 25' 30"), fire-clay. M. S., **R**, XXXVIII, 142.
- Sarwar, *Kishangarh* (45 N/4; 26° 4': 75° 1'), garnet mines. C. A. H., **R**, XIII, 249; inclusions in garnet. L. L. F., **R**, LIX, 192.
- Sarzeh, *Persia* (25 A/14; 27° 32': 56° 56'), Eocene sandstone. G. E. P., **M**, XLVIII, pt. 2, 106.
- Sasaini (Ghulkin) glacier, *Hunza* (42 L/15; 36° 26': 74° 48'), movements of snout. K. M., **R**, LXIII, 235 (Pl. vi, 6).
- Sasangda, *Singhbhum* (73 F/8; 22° 7': 85° 18'), iron-ore. H. C. J., **R**, LIV, 210.
- Sasangutu, *Singhbhum* (73 F/10; 22° 32': 85° 40'), silicified limestone. J. A. D., **M**, LIV, 29.

- Sasaram, *Shahabad* (72 D/1 ; 24° 57' : 84° 1'), geodetic station. R. D. O., **M**, XLII, 230, 272=Sasseram.
- Saser La, *Ladakh* (52 E/12 ; 35° 2' : 77° 44'), supra-Kuling beds. R. L., **M**, XXII, 185.
- Sashandi, *Jeypore* (65 I/8 ; 19° 7' : 82° 29'), Cuddapah shales. T. L. W., **A. R.**, 1900, 172.
- Saspul, *Ladakh* (52 F/3 ; 34° 15' : 77° 10'), Tertiary beds, section. R. L., **M**, XXII, 105 (fig.).
- Sasser, *Ladakh* (52 E/16 ; 35° 4' : 77° 47'), glaciers. D. G. O., **R**, XL, 343 (Pl. 50).
- Sasseram, *Shahabad* (72 D/1 ; 24° 57' : 84° 1'), 'khari mitti' (altered limestone), analyses. F. R. M., **M**, VII, 114=Sasaram.
- Sasti, *Adilabad* (56 M/5 ; 19° 49' : 79° 20'), coal seam. T. W. H. H., **M**, XIII, 54 ; R. R. S., **M**, XLI, 90, 100=Sarte.
- Sasun, *Sambalpur* (73 C/2 ; 21° 32' .30" : 84° 2' 30"), Talchir beds, building stone. V. B., **R**, VIII, 104, 119.
- Sasunia, *Bunkura* (73 I/15 ; 23° 24' : 86° 59'), flagstone quarries. V. B., **M**, XVIII, 87, 110=Susinia.
- Sat Tal, *Naini Tal* (53 O/11 ; 29° 21' : 79° 32'), origin of lake. V. B., **R**, XI, 180 (Pl. iv) ; W. T., **R**, XIII, 173.
- Satak, *Nagpur* (55 O/7 ; 21° 20' : 79° 16'), rhodonite. L. L. F., **M**, XXXVII, 141 ; spessartite, 171, 176 ; manganophyllite, 196 ; microcline, 217, 297 ; manganese-ore, 899, 901 (fig. & Pl. xxxvi, fig. 2) ; braunite crystals. **R**, XLI, 44 ; garnet crystal. LIX, 193.
- Satapur, *Kathiawar* (41 M/8 ; 23° 4' : 71° 26'), boring for water. E. H. P., **R**, LIX, 61.
- Satara, *Bombay* (47 K/2 ; 17° 41' : 74° 1'), manganese-ore. L. L. F., **M**, XXXVII, 661.
- Sateri, *Bhopal* (55 I/12 ; 23° 5' 30" : 78° 33'), Vindhyan boundary fault. F. R. M., **M**, VII, 75.
- Satgaon, *Sylhet* (78 P/11 ; 24° 18' : 91° 39' 30"), Srimangal, earthquake, 1918. M. S., **M**, XLVI, 10.
- Satghur, *N. Arcot* (57 L/9 ; 12° 57' : 78° 45'), granitoid gneiss. R. B. F., **R**, XII, 191.
- Sath Pokaria (Satpukhuria), *Burdwan* (73 M/2 ; 23° 42' 30" : 87° 0' 30"), coal seam. W. T. B., **M**, III, 105.
- Sathankulam, *Tinnevely* (58 H/15 ; 8° 26' 30" : 77° 55'), travertine. R. B. F., **M**, XX, 78 ; sand dune, 92.
- Satharva, *Idar* (46 A/13 ; 23° 57' : 72° 59'), micro-granite. C. S. M., **M**, XLIV, 124.
- Sathbarva, *Palamau* (73 A/5 ; 23° 55' : 84° 15' 30"), Talchir beds. T. W. H. H., **M**, VIII, 346 ; V. B., **M**, XV, 39 ; crystalline limestone, analysis, 35 ; iron-ore, 116.
- Sathra, *Punch* (43 K/1 ; 33° 46' 30" : 74° 12' 30"), bituminous limestone. D. N. W., **M**, LI, 319.
- Sathrol, *Idar* (46 E/2 ; 23° 40' : 73° 13'), dip-slope in Delhi quartzite. C. S. M., **M**, XLIV, 88.
- Satiguri, *Bilaspur* (64 J/12 ; 22° 7' : 82° 38'), Vindhyan boundary. W. K., **R**, XVIII, 179.

- Satiwali (Sativli), *Thana* (47 A/14; 19° 38' : 72° 54'), hot springs. T. O., **M**, XIX, 108.
- Satlahi, *Simla* (53 E/8; 31° 0' : 77° 18'), banded slates, Simla series. G. E. P., **M**, LIII, 119.
- Satna, *Sohawal* (63 D/14; 24° 34' : 80° 50'), gypsum in Vinthyan beds. L. L. F., **R**, XXXIII, 233=Sutna.
- Satnur, *Chhindwara* (55 K/14; 21° 30' 30" : 78° 51'), Lameta limestone. P. N. D., **R**, XXXIII, 225; garnet-pyroxene-labradorite rocks. L. L. F., **R**, LIV, 45.
- Sattavedu (Satyavedu), *Chingleput* (57 O/15; 13° 26' : 79° 57' 30"), Jurassic beds. R. B. F., **R**, III, 14; **M**, X, 71 (fig.); lateritic conglomerate, 33.
- Sattain, *Myingyan* (84 O/8; 21° 3' : 95° 16'), inlier, Pegu series. E. H. P., **M**, XL, 134=Seiktein.
- Sattobauk, *Yamethin* (84 P/16; 20° 13' : 95° 56'), U. Pegu fossils. E. H. P., **R**, LVIII, 51.
- Sattwa, *Pakokku* (84 O/2; 21° 39' : 95° 7'), pottery clay. E. H. P., **R**, LX, 43.
- Sattyavadi, *S. Arcot* (58 M/7; 11° 27' : 79° 18' 30"), alluvium, section. H. F. B., **M**, IV, 181 (fig.).
- Satunga, *Jaintia Hills* (83 C/7; 25° 22' : 92° 26'), coal seam. T. D. L., **R**, XVI, 201; R. R. S., **M**, XLI, 30=Sutnga.
- Satur, *Bundi* (45 O/11; 25° 26' : 75° 33' 30"), anticline, L. Bhandar limestone. A. L. C., **R**, LX, 174 (fig.); Vindhyan boundary fault, 186.
- Satwah, *Sandoway* (85 K/9; 17° 46' 30" : 94° 30'), Negrais beds. W. T., **M**, X, 299.
- Satwas, *Indore* (55 B/10; 22° 32' : 76° 41'), Archæan rocks. T. H. H., **R**, XXXVII, 48; iron-ore, 50.
- Satyamangalam, *Coimbatore* (58 E/2; 11° 30' 30" : 77° 14' 30"), green quartzite. H. H. H., **M**, XXXIII, pt. 2, 59.
- Saugh (Sach Khas), *Chamba* (52 D/5; 33° 0' : 76° 26'), Pangi slates. R. L., **R**, XI, 54; glaciated rocks. C. A. M., **R**, XIV, 310.
- Saugor, *Central Provinces* (55 I/13; 23° 51' : 78° 45'), Lameta limestone. F. R. M., **M**, VII, 24; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 257=Sagur.
- Saugor I., *24 Parganas* (79 C/2; 21° 39' : 88° 2'), earthquake, 1897. R. D. O., **M**, XXIX, 33.
- Saulon, *Karenni* (94 E/8; 19° 13' 30" : 97° 25' 30"), Permo-Carboniferous fossils. C. S. M., **A. R.**, 1900, 142.
- Saulonga, *Shimoga* (48 N/12; 14° 6' : 75° 32'), inlier of gneiss. R. B. F., **R**, XXI, 46.
- Saungka-chaung, *Myitkyina* (92 C/11; 25° 19' : 96° 44' 30"), coal seams. F. N., **R**, XXV, 133; R. R. S., **M**, XLI, 75=N'Saungka-chaung and Sawngching Hka.
- Sauriuli, *Singbhum* (73 F/2; 22° 38' : 85° 11' 30"), hematite-schists and -phyllites. J. A. D., **M**, LIV, 27; granite-gneiss, 116.
- Sausal, *Singbhum* (73 F/6; 22° 36' 30" : 85° 17'), auriferous veins. J. M. M., **R**, XXXI, 76 (Pl. vi); assays, 77; jointing in basalt. J. A. D., **M**, LIV, 76.
- Sausar, *Chhindwara* (55 K/14; 21° 39' : 78° 48'), petrology and manganese-ores of area. L. L. F., **R**, XXXIII, 159 (Pls. xiv-xx); Lameta beds. P. N. D., **R**, XXXIII, 225.

- Savarni, *Chhindwara* (55 K/14;  $21^{\circ} 36' 30''$  :  $78^{\circ} 51' 30''$ ), gondite rocks. L. L. F., **R**, LIV, 45.
- Savi (Sov), *Kolaba* (47 F/8;  $18^{\circ} 5'$  :  $73^{\circ} 23'$ ), hot spring. T. O., **M**, XIX, 106.
- Savikka, *Jhelum* (43 H/5;  $32^{\circ} 46'$  :  $73^{\circ} 22'$ ), Eocene-Siwalik beds. L. L. F., **R**, LXV, 119.
- Sawa, *Mewar* (45 I/9;  $24^{\circ} 45' 30''$  :  $74^{\circ} 35'$ ), grits and shales, ? Aravalli. E. H. P., **R**, LIX, 96.
- Sawai Madhopur, *Jaipur* (54 C/5;  $25^{\circ} 59' 30''$  :  $76^{\circ} 23'$ ), Gwalior and Vindhyan rocks. A. M. H., **R**, LIV, 348.
- Sawaipur, *Hissar* (44 O/2;  $29^{\circ} 39'$  :  $75^{\circ} 3'$ ), geodetic station. R. D. O., **M**, XLII, 231.
- Sawajpani, *Chhindwara* (55 K/10;  $21^{\circ} 36'$  :  $78^{\circ} 39'$ ), fault in Deccan trap. E. H. P., **R**, LIX, 80.
- Sawal, *Jaisalmer* (40 N/1;  $26^{\circ} 59'$  :  $71^{\circ} 8' 30''$ ), sub-recent conglomerate. R. D. O., **R**, XIX, 100.
- Sawalkot, *Punch* (43 K/6;  $33^{\circ} 34' 30''$  :  $74^{\circ} 23'$ ), rhyolitic felsite sill. D. N. W., **M**, LI, 224, 313.
- Sawngching Hka, *Myitkyina* (92 C/11;  $25^{\circ} 19'$  :  $96^{\circ} 44' 30''$ ), building stone. E. H. P., **R**, LXIII, 29—N'Saungka-chaung and Saungka-chaung.
- Sawpedo Auk, *Toungoo* (94 B/16;  $18^{\circ} 6'$  :  $96^{\circ} 57'$ ), epidiorite dyke. E. L. C., **R**, LX, 301.
- Sawunt Waree (Savantvadi), *Bombay* (48 E/13;  $15^{\circ} 54'$  :  $73^{\circ} 49'$ ), Deccan trap outliers. C. J. W., **R**, IV, 47.
- Saya Malgin, *Kohat* (38 O/11;  $33^{\circ} 18'$  :  $71^{\circ} 30'$ ), anhydrite. A. B. W., **M**, XI, 150; Tertiary beds, sections, 241 (Pl. vi, figs. 33, 34).
- Sayad Baba, *Afghanistan* (33 M/12;  $35^{\circ} 11'$  :  $67^{\circ} 34' 30''$ ), recumbent fold. H. H. H., **M**, XXXIX, 3; Doab series, 59.
- Saye, *Sagaing* (84 N/16;  $22^{\circ} 0' 30''$  :  $95^{\circ} 56'$ ), brine wells. E. H. P., **R**, LXI, 72; U. Pegu beds. LXII, 121.
- Sdthorbugher, *Kohat* (38 O/3;  $33^{\circ} 21'$  :  $71^{\circ} 13'$ ), salt mine. A. B. W., **M**, XI, 317.
- Searsole (Siarsol), *Burdwan* (73 M/2;  $23^{\circ} 38'$  :  $87^{\circ} 6' 30''$ ), coal seam. R. R. S., **M**, XLI, 46—Sirsol.
- Sedaw, *Mandalay* (93 C/5;  $21^{\circ} 53' 30''$  :  $96^{\circ} 15'$ ), gorge. T. D. L., **M**, XXXIX, pt. 2, 18; Cystidean beds, Ordovician, 69, 332.
- Sedaw, *Shwebo* (84 J/14;  $22^{\circ} 44' 30''$  :  $94^{\circ} 59'$ ), alluvial gold. E. H. P., **R**, LXII, 53.
- Sedo, *Yamethin* (93 D/7;  $20^{\circ} 18'$  :  $96^{\circ} 18'$ ), galena. E. H. P., **R**, LIX, 48; pyrites, 50.
- Sedosphor (Shujaatpur), *Nander* (56 F/10;  $18^{\circ} 35'$  :  $77^{\circ} 38' 30''$ ), dolerite dyke. H. H. H., **R**, XLVIII, 22.
- Sedpa, *Hazaribagh* (73 A/13;  $23^{\circ} 47' 30''$  :  $84^{\circ} 57'$ ), Barakar stage. A. J., **M**, LII, 44.
- Seor (Jeur) Ghat, *Ahmadnagar* (47 I/15;  $19^{\circ} 15'$  :  $74^{\circ} 50'$ ), Deccan trap, section, W. T. B., **R**, I, 60.
- Seerum, *Palamau* (73 A/14;  $23^{\circ} 42' 30''$  :  $84^{\circ} 55' 30''$ ), current-bedding in Barakars. A. J., **M**, LII, 59 (fig.).

- Seesaghud, *Cutch* (41 E/8; 23° 6' : 69° 21'), U. Jurassic beds, coal. A. B. W., **M**, IX, 86, 198=Sisagudh.
- Seesai, *Hazaribagh* (73 E/1; 23° 56' : 85° 2'), Talchir inlier. A. J., **M**, LII, 13; Karharbari stage, 20.
- Seethacubber (Sitakahabar), *Santal Parganas* (72 P/4; 24° 15' : 87° 13'), limestone. V. B., **M**, XIII, 240.
- Seganankottei, *S. Arcot* (58 M/1; 11° 52' : 79° 10'), quasi-conglomeratic gneiss W. K., **M**, IV, 301.
- Segowlic (Sagauli), *Champaran* (72 R/9; 26° 46' : 84° 45'), meteorite. J. C. B., **M**, XLIII, 262.
- Seh Baba, *Afghanistan* (38 F/10; 34° 31' : 69° 39'), serpentine and limestone. H. H. H., **M**, XXXIX, 45=Seh-i-Baba.
- Seha, *Chobpur* (63 D/5; 24° 54' : 80° 30'), diamond workings. E. V., **R**, XXXIII, 286.
- Sehe, *Cutch* (41 A/10; 23° 40' : 68° 35'), M. Khirthar foraminifera. W. L. F. N., **R**, LIX, 143, 148.
- Sehelda, *Ranchi* (73 F/5; 22° 57' : 85° 19'), microgranite. L. A. N., **R**, LXV, 513.
- Seh-i-Baba, *Afghanistan* (38 F/10; 34° 31' : 69° 39'), serpentinous rocks. C. L. G., **R**, XXV, 70=Seh Baba.
- Sehora, *Narsinghpur* (55 N/5; 22° 53' : 79° 21'), U. Damuda (Lameta) beds, section. J. G. M., **M**, II, 177; Mahadeva boundary fault, 235; Lameta coal. R. R. S., **M**, XLI, 87.
- Shore, *Bhopal* (55 E/4; 23° 12' : 77° 5'), Deccan trap flows. T. H. H., **R**, XXXIII, 107; earthquake, 1897. R. D. O., **M**, XXIX, 37.
- Sehr (E.), *Punch* (43 G/14; 33° 44' : 73° 57'), Murree series, anticline. D. N. W., **M**, LI, 321.
- Sehr (W.), *Punch* (43 G/10; 33° 40' : 73° 43'), Palandri stage, anticline. D. N. W., **M**, LI, 327.
- Shwan, *Larkhanu* (35 N/15; 26° 26' : 67° 52'), Manchhar beds. W. T. B., **M**, XVII, 123; hot springs, sulphurous. T. O., **M**, XIX, 113.
- Seikkwa, *Pakokku* (84 K/16; 21° 7' 30" : 94° 48'), selenite in Irrawaddy beds. E. H. P., **M**, XL, 106.
- Seikkyi, *Hanthawaddy* (94 D/2; 16° 44' : 96° 13' 30"), Burma earthquake, 1912. J. C. B., **M**, XLII, 72.
- Seikpumyaung, *Shwebo* (84 M/8; 23° 12' : 95° 29'), fossil wood, Irrawadian series. L. L. F., **R**, LXV, 35, 95.
- Seiktein, *Myingyan* (84 O/8; 21° 3' : 95° 16'), anticline, Pegu series. E. H. P., **R**, XXXIV, 242 (Pl. xxxi); manganese-ore, 248; L. L. F., **M**, XXXVII, 670=Sattein.
- Se-In, *N. Shan States* (93 F/10; 22° 43' : 97° 31'), Jurassic fossils. T. D. L., **M**, XXXIX, pt. 2, 306; travertine dam, 344=Sa-en.
- Seing (Thaing) Chaung, *Toungoo* (94 A/3; 19° 15' : 96° 13'), manganese-ore. W. T., **M**, X, 267; L. L. F., **M**, XXXVII, 671.
- Seinpyon, *Tavoy* (95 J/7; 14° 20' : 98° 27'), cassiterite, J. C. B., **M**, XLIV, 216; galena, 221; wolfram, 286.
- Seitur (Sattur), *Rannad* (58 G/15; 9° 21' : 77° 55'), zircon. G. H. T., **R**, LII, 309.

- Sejari, *Rewah* (63 H/8;  $24^{\circ} 8' : 81^{\circ} 20'$ ), concentration of drainage. R. D. O., **M**, XXXI, 42.
- Seju, *Garò Hills* (78 K/11;  $25^{\circ} 21' : 90^{\circ} 41'$ ), coal seam. H. B. M., **R**, I, 13; Cretaceous beds, contact with gneiss. **M**, VII, 180=Siju.
- Sekradih, *Ranchi* (73 F/13;  $22^{\circ} 53' 30'' : 85^{\circ} 50''$ ), chlorite-epidote-rock. J. A. D., **M**, LIV, 82.
- Sekran, *Kalut* (35 I/5;  $27^{\circ} 52' : 66^{\circ} 26'$ ), lead-ore with antimony. C. L. G., **M**, XVIII, 58=Shekran.
- Sekredih, *Ranchi* (73 F/9;  $22^{\circ} 57' : 85^{\circ} 45''$ ), agglomerate, Iron Ore series. J. A. D., **M**, LIV, 74, 75.
- Selangapalaiyam, *Coimbatore* (58 E/11;  $11^{\circ} 25' 30'' : 77^{\circ} 34' 30''$ ), corundum. C. S. M., **R**, XXIX, 47.
- Selon (Sailung), *U. Chindwin* (83 N/16;  $26^{\circ} 0' 30'' : 95^{\circ} 52'$ ), U. Tertiary beds, junction with metamorphics. H. S. B., **R**, XLIII, 244 (Pl. xxiii).
- Selye R., *Midnapore* (73 N/1;  $22^{\circ} 53' : 87^{\circ} 12'$ ), granite-gneiss contact. W. T. B., **M**, I, 258.
- Semardhana, *Chhindwara* (55 K/10;  $21^{\circ} 42' 30'' : 78^{\circ} 40'$ ), Intertrappean chert, fossiliferous. E. H. P., **R**, LX, 93.
- Semaria, *Rewah* (63 H/1;  $24^{\circ} 48' : 81^{\circ} 9'$ ), laterite. E. V., **R**, XXXIII, 272.
- Semariha, *Rewah* (64 E/15;  $23^{\circ} 16' : 81^{\circ} 51' 30''$ ), coal seam. T. W. H. H., **M**, XXI, 244.
- Sembar pass, *Sibi* (39 C/9;  $29^{\circ} 56' : 68^{\circ} 34'$ ), Belemnite beds, Cretaceous. R. D. O., **R**, XXV, 19.
- Sembarampakkam (Chembarambakkam), *Chingleput* (66 C/4;  $13^{\circ} 1' 30'' : 80^{\circ} 3' 30''$ ), lateritic conglomerate. R. B. F., **M**, X, 32.
- Semdih, *Rewah* (64 E/7;  $23^{\circ} 22' 30'' : 81^{\circ} 28'$ ), coal seams. T. W. H. H., **M**, XXI, 245.
- Semij, *Singbhum* (73 F/3;  $22^{\circ} 30' : 85^{\circ} 13'$ ), granite. L. A. N., **R**, LXV, 515; analysis, 520.
- Semindaw, *Pakokku* (84 K/1;  $21^{\circ} 53' 30'' : 94^{\circ} 7'$ ), Yaw shales. E. H. P., **R**, LVI, 42.
- Semlia, *Idar* (45 H/4;  $24^{\circ} 9' 30'' : 73^{\circ} 0' 30''$ ), biotite-gneiss. C. S. M., **M**, XLIV, 23.
- Semra, *Alwar* (54 A/4;  $27^{\circ} 11' 30'' : 76^{\circ} 13'$ ), isocline in Alwar series. A. M. H., **M**, XLV, 52 (fig. & Pl. vii, fig. 1).
- Semri (Siamri) R., *Bijawar* (54 P/10;  $24^{\circ} 34' : 79^{\circ} 31'$ ), U. Bijawar rocks. H. R. M., **M**, II, 42.
- Semriha, *Rewah* (64 E/7;  $23^{\circ} 20' : 81^{\circ} 19'$ ), coal seam. T. W. H. H., **M**, XXI, 245.
- Seinsang R., *Garò Hills* (78 K/11;  $25^{\circ} 21' : 90^{\circ} 41'$ ), Cretaceous beds. H. B. M., **R**, VII, 60=Sumesari R.
- Semungalum, *S. Arcot* (57 P/12;  $12^{\circ} 4' : 79^{\circ} 42' 30''$ ), kaolin. H. F. B., **M**, IV, 213.
- Senchal, *Darjeeling* (78 B/5;  $26^{\circ} 59' : 88^{\circ} 17' 30''$ ), geodetic station. R. D. O., **M**, XLII, 250.
- Sendhwa, *Rewah* (63 H/12;  $24^{\circ} 13' : 81^{\circ} 35'$ ), Red Shale series. R. D. O., **M**, XXXI, 122.

- Sendrani, *Indore* (55 B/11;  $22^{\circ} 27' 30''$  :  $76^{\circ} 37'$ ), iron-ore. P. N. B., **M**, XXI, 65; T. H. H., **R**, XXXVII, 50.
- Sendur R., *Surguja* (64 M/9;  $23^{\circ} 49'$  :  $83^{\circ} 36'$ ), Gondwana beds, section. C. L. G., **M**, XV, 156 (Pl. iii, fig. 1).
- Sendura, *Rewah* (63 H/16;  $24^{\circ} 10'$  :  $81^{\circ} 49'$ ), Bijawar conglomerate. R. D. O., **M**, XXXI, 132.
- Sendurgar, *Bilaspur* (64 J/5;  $22^{\circ} 49'$  :  $82^{\circ} 22'$ ), coalfield. R. R. S., **M**, XLI, 82.
- Seneku, *Myitkyina* (92 G/14;  $25^{\circ} 32' 30''$  :  $97^{\circ} 48'$ ), metamorphic rocks. M. S., **R**, LIV, 406.
- Senjani, *Ranchi* (73 F/9;  $22^{\circ} 55'$  :  $85^{\circ} 33'$ ), altered tuffs. J. A. D., **M**, LIV, 49, 69.
- Senlan, *Minbu* (85 I/5;  $19^{\circ} 54'$  :  $94^{\circ} 21'$ ), steatite mines. H. H. H., **R**, XXIX, 73.
- Seonee, *Chanda* (56 M/14;  $19^{\circ} 36' 30''$  :  $79^{\circ} 47'$ ), augite-norite, charnockite series. K. H., **R**, LV, 256.
- Seoni, *Central Provs.* (55 N/12;  $22^{\circ} 5'$  :  $79^{\circ} 33'$ ), geodetic station. R. D. O., **M**, XLII, 272.
- Seorajpur, *Allahabad* (63 G/12;  $25^{\circ} 12'$  :  $81^{\circ} 37'$ ), sandstone quarries. F. R. M., **M**, VII, 117.
- Seraganoor (Siruganur), *Trichinopoly* (58 I/16;  $11^{\circ} 1'$  :  $78^{\circ} 47'$ ), hornblende-schist. H. F. B., **M**, IV, 35; Utatur beds, 79; Trichinopoly stage, outliers, 112.
- Serahan, *Bashahr* (53 E/14;  $31^{\circ} 31'$  :  $77^{\circ} 48'$ ), biotite-schist. F. R. M., **M**, V, 169.
- Serajganj, *Pabna* (78 H/11;  $24^{\circ} 27'$  :  $89^{\circ} 44' 30''$ ), Bengal earthquake, 1885. C. S. M., **R**, XVIII, 201 (Pl. viii) = Sirajganj.
- Serampore, *Hooghly* (79 B/6;  $22^{\circ} 45'$  :  $88^{\circ} 20'$ ), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 221.
- Serang, *Dhenkanal* (73 H/5;  $20^{\circ} 55'$  :  $85^{\circ} 15'$ ), boulder in Talchir shales. W. T. B., **M**, I, 55 (fig.).
- Serangi R., *Maihar* (63 D/15;  $24^{\circ} 15'$  :  $80^{\circ} 52'$ ), Ganurgarh shales, section. F. R. M., **M**, VII, 83.
- Serbhanja, *Surguja* (64 N/1;  $22^{\circ} 47'$  :  $83^{\circ} 13'$ ), aluminous laterite. C. S. F., **M**, XLIX, 152.
- Serdamungalum (Saradamangalam), *Trichinopoly* (58 I/16;  $11^{\circ} 3' 30''$  :  $78^{\circ} 57'$ ), Trichinopoly fossils. H. F. B., **M**, IV, 117.
- Serendag, *Ranchi* (73 A/7;  $23^{\circ} 22'$  :  $84^{\circ} 28'$ ), kaolinite, analysis. C. S. F., **M**, XLIX, 32; bauxite, 174, 177.
- Serengda, *Singhbhum* (73 F/2;  $22^{\circ} 36' 30''$  :  $85^{\circ} 13' 30''$ ), vesicular structure in Dalma trap. J. A. D., **M**, LIV, 76, 80.
- Seri Sarhal, *Rawalpindi* (43 C/14;  $33^{\circ} 42' 30''$  :  $72^{\circ} 57'$ ), Nummulitic limestone. E. H. P., **M**, XL, 394.
- Seringala, *Coorg* (57 D/2;  $12^{\circ} 34'$  :  $76^{\circ} 0'$ ), magnesite. T. H. H., **R**, XXXIX, 127.
- Seringapatam, *Mysore* (57 D/11;  $12^{\circ} 26'$  :  $76^{\circ} 40'$ ), mica. T. H. H., **M**, XXXIV, 68.

- Seriska, *Alwar* (54 A/7; 27° 23' : 76° 23'), Kushalgarh limestone. A. M. H., **M**, XLV, 59; Alwar breccia, 68.
- Serruvayal, *Ramnad* (58 K/9; 9° 57' : 78° 39' 30'), Rajmahal boulder beds. R. B. F., **R**, XII, 148; **M**, XX, 35; lateritic conglomerate, 47.
- Servona, *Goa* (48 E/14; 15° 34' : 74° 58'), manganese-ore. L. L. F., **M**, XXXVII, 984, 989.
- Serwah (Sarwa), *Panna* (54 P/7; 24° 29' : 79° 16' 30'), Tirohan limestone. H. B. M., **M**, II, 32.
- Setambu, *Sirmur* (53 F/5; 30° 52' 30" : 77° 24' 30"), olivine-dolerite. G. E. P., **M**, LIII, 56.
- Sethan ki Rian, *Jodhpur* (45 F/7; 26° 23' : 73° 29' 30"), junction of Aravalli slates with granite. A. M. H., **R**, LXV, 469.
- Setsigon, *Mandalay* (93 B/6; 22° 31' : 96° 18'), fault. T. D. L., **M**, XXXIX, pt. 2, 46.
- Setthalli, *Mysore* (57 D/10; 12° 37' : 76° 41'), mica. T. H. H., **M**, XXXIV, 68.
- Settorei (Sattarai), *Chingleput* (57 O/16; 13° 3' : 79° 51'), Rajmahal plant beds. R. B. F., **M**, X, 114.
- Sevandipatti, *Tinnevely* (58 H/14; 8° 38' : 77° 47'), travertine. R. B. F., **M**, XX, 77.
- Seven Pagodas, *Chingleput* (66 D/2; 12° 37' : 80° 11' 30"), augite-diorite, petrology. T. H. H., **R**, XXX, 32; quartz-felspar rock, charnockite series. **M**, XXVIII, 146, 177=Mahavalipuram.
- Sewar, *Dholpur* (54 F/11; 26° 27' : 77° 34'), L. Bhandar beds, sections. F. R. M., **M**, VII, 92, 93.
- Sha-ala-Ditta, *Rawalpindi* (43 C/14; 33° 43' : 72° 55'), Jurassic beds, section. C. S. M., **M**, XXVI, 215=Shaladitta.
- Sha-ch'iao, *Yunnan* (101 G/4; 25° 15' : 101° 8'), iron smelting. J. C. B., **M**, XLVII, 93.
- Shadaing, *Thayetmyo* (85 M/2; 19° 36' : 95° 9'), Oligocene Echinoidea. L. V., **R**, LIV, 413 (Pl. xxx).
- Shadhal, *Patiala* (53 E/4; 31° 1' 30" : 77° 6' 30"), carbonaceous limestone. G. E. P., **M**, LIII, 107.
- Shadian, *Afghanistan* (32 P/2; 36° 31' 30" : 67° 12' 30"), Cretaceous limestone, fossils. C. L. G., **R**, XX, 20; H. S. B., **R**, LVI, 263, 267.
- Shadipur, *Kohat* (38 O/14; 33° 40' : 71° 59'), 'erratics'. W. T., **R**, XIII, 229; Grey Sandstone series, Siwalik. W. W., **R**, XVII, 120=Shodipur.
- Shagwe, *Shwebo* (84 N/15; 22° 28' : 95° 58'), lime burning. L. L. F., **R**, LXV, 36.
- Shah Mt., *Kohat* (38 O/3; 33° 21' : 71° 3'), Tertiary beds, section. A. B. W., **M**, XI, 187 (Pl. i, fig. 6).
- Shah Billawal, *Las Bela* (35 O/1; 25° 46' : 67° 0'), serpentine. E. V., **R**, XXXVIII, 211.
- Shah Janali pass, *Chitral* (42 D/13; 36° 47' : 72° 50'), Sarikol shale series. E. H. P., **R**, LVI, 47.
- Shah Kabul, *Hazara* (43 G/1; 33° 49' : 73° 1'), Jurassic beds. A. B. W., **R**, XII, 125.



- Shah Mahomedwalla, *Attock* (38 O/16; 33° 3' 30" : 71° 56'), 'erratics'. W. T., **R**, X, 142.
- Shah Makhsud range, *Afghanistan* (34 E/1; 31° 52' : 65° 12'), copper-ore. C. L. G., **M**, XVIII, 57.
- Shah Ruhi, *Larkhana* (35 N/11; 26° 16' : 67° 32'), hot spring. W. T. B., **M**, XVII, 113.
- Shah Savaran range, *Persia* (24 L/16; 28° 8' : 58° 49'), volcanic series, Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 67.
- Shahabad, *Kashmir* (43 O/6; 33° 31' 30" : 75° 16'), Triassic limestone. R. L., **R**, XI, 42; XIV, 29.
- Shahanagore, *Murshidabad* (78 D/8; 24° 9' : 88° 16' 30"), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 227.
- Shah-Beg, *Karachi* (35 O/7; 25° 26' : 67° 28'), Gaj series, mollusca. E. V., **M**, L, 429, 431, 434.
- Shahdara, *Rawalpindi* (43 G/1; 33° 48' : 73° 11' 30"), U. Nummulitic beds. D. N. W., **M**, LI, 353.
- Shahdrung, *Kohat* (38 O/3; 33° 21' : 71° 3'), salt quarries. A. B. W., **M**, XI, 317.
- Shahgarh, *Saugor* (54 P/3; 24° 19' : 79° 7'), Bijawar rocks, junction with Semris. H. B. M., **M**, II, 38.
- Shahidan, *Panna* (63 D/2; 24° 42' : 80° 7'), diamond mine. E. V., **R**, XXXIII, 289 (Pls. xxv, xxvi).
- Shahidan Kuli Khel, *Kohat* (38 O/8; 33° 12' : 71° 16'), oil seepage. E. H. P., **M**, XL, 420.
- Shah-i-dula, *E. Turkestan* (51 H/15; 36° 26' : 77° 58'), syenitic gneiss. F. S., **R**, VII, 14, 49.
- Shahkhori, *Kashmir* (43 F/10; 34° 34' : 73° 34'), Infra-Triassic beds. D. N. W., **R**, LXV, 208.
- Shah-ki-Noorpoor (Nurpur Shahan), *Rawalpindi* (43 G/2; 33° 45' : 73° 7'), nummulitic limestone. C. S. M., **M**, XXVI, 215; oil seepage, 287.
- Shahkot, *Shekhupura* (44 E/6; 31° 34' : 73° 29'), ferruginous quartzites. A. M. H., **R**, XLIII, 233.
- Shahkotai (Sakkottai), *Ramnad* (58 J/16; 10° 5' 30" : 78° 51' 30"), laterite. R. B. F., **R**, XII, 153; **M**, XX, 46, 99 : Cuddalore grits, 38.
- Shahpur, *Betul* (55 F/16; 22° 12' : 77° 55'), borings for coal. H. B. M., **R**, XVI, 2; E. J. J., **M**, XXIV, 12=Shapur.
- Shahpur, *Gurdaspur* (43 P/4; 32° 2' : 75° 5' 30"), geodetic station. R. D. O., **M**, XLII, 232.
- Shahpur, *Kalat* (39 D/6; 28° 43' : 68° 25'), Baluchistan earthquake, 1909. A. M. H., **R**, XLI, 28.
- Shahpur, *Kangra* (52 D/4; 32° 13' : 76° 11'), earthquake, 1905. C. S. M., **M**, XXXVIII, 9.
- Shahpur, *Persia* (10 O/9; 29° 46' : 51° 34'), Fars-Bakhtiyari series. G. E. P., **M**, XXXIV, pt. 4, 64 (fig.).
- Shahpur, *Punch* (43 K/1; 33° 49' 30" : 74° 11'), coal seam. D. N. W., **M**, LI, 366.
- Shahpura, *Mewar* (45 K/14; 25° 37' : 74° 56'), garnet. T. H. H., **R**, XXXIX, 247.

- Shahrag, Sharig, *Sibi* (34 N/12; 30° 11' : 67° 43'), coal seams. W. T. B., **M**, XX, 154; section, 191; R. D. O., **R**, XXIII, 95, 109; R. R. S., **M**, XLI, 33; Eocene beds, section. C. L. G., **R**, XXVI, 134 (Pl. xviii, fig. 2)=Sharag and Sharigh.
- Shahr-i-Babak, *Persia* (17 N/4; 30° 7' : 55° 9'), intrusive rocks, Eocene. G. E. P., **M**, XLVIII, pt. 2, 72.
- Shahur Tangi, *Waziristan* (38 H/15; 32° 19' : 69° 56'), dam-site. E. H. P., **R**, LXIII, 66.
- Shai-ching-po, *Yunnan* (101 C/11; 25° 26' : 100° 36' 30'), Triassic beds. J. C. B., **R**, LIV, 77.
- Shaikh Othman, *Aden* (7 D/13; 12° 52' : 44° 59' 30'), well sections. F. R. M., **M**, VII, 272.
- Shaikh Shu'aib I., *Persian Gulf* (18 F/1; 26° 48' : 53° 15'), littoral concrete. G. E. P., **M**, XXXIV, pt. 4, 142.
- Shaikhpora, *Karauli* (54 B/15; 26° 23' : 76° 48'), Kaimur conglomerate. A. M. H., **M**, XLV, 155.
- Shaistaganj, *Sylhet* (78 P/7; 24° 17' : 91° 27'), earthquake, 1897, effect on railway. G. E. G., **M**, XXIX, 297; sand vents, Pl. ix.
- Shaitancotta (Satanikota), *Kurnool* (57 I/1; 15° 55' : 78° 12' 30'), basal beds, Jammalamadugu series. R. B. F., **M**, VIII, 79.
- Shakar dara, *Afghanistan* (38 F/2; 34° 42' : 69° 2'), crystalline rocks. H. H. H., **M**, XXXIX, 17.
- Shakar Parian, *Rawalpindi* (43 G/2; 33° 41' 30" : 73° 4'), post-Pleistocene movement. E. H. P., **M**, XL, 451; D. N. W., **M**, LI, 291.
- Shakh-i-Barant (Sakh-i-Baranbal), *Afghanistan* (38 F/3; 34° 26' : 69° 13'), schists, limestone and igneous rocks. C. L. G., **R**, XXV, 74; H. H. H., **M**, XXXIX, 17.
- Shakkardarra, *Kohat* (38 O/12; 33° 13' 30" : 71° 30'), Tertiary beds, section. A. B. W., **M**, XI, 286 (Pl. ix, fig. 54).
- Sha-ko-tsun, *Yunnan* (101 K/12; 25° 13' : 102° 33' 30'), Permo-Carboniferous fossils. J. C. B., **R**, XLIV, 111.
- Shakshang, *Rupshu* (52 K/8; 33° 3' : 78° 17'), quartz-biotite-schist. H. H. H., **M**, XXXVI, 95.
- Shaku, *Simla* (53 E/4; 31° 2' 30" : 77° 7' 30"), Himalayan series. H. B. M., **M**, III, pt. 2, 37=Shogi.
- Shal R., *Buner* (43 B/14; 34° 31' : 72° 49'), mica-schist, petrology. C. S. M., **M**, XXVI, 58; gneissose granite, 72 (fig. & Pl. i, figs. 1, 2).
- Shalabagh, *Quetta-Pishin* (34 J/9; 30° 50' : 66° 36'), Baluchistan earthquake. 1892. C. L. G., **R**, XXVI, 58.
- Shaladitta, *Rawalpindi* (43 C/14; 33° 43' : 72° 55'), Jurassic fossils. A. B. W., **R**, XII, 125=Sha-ala-Ditta.
- Shalai, *Sirmur* (53 F/10; 30° 41' : 77° 43'), Jaunsar conglomerate. G. E. P., **M**, LIII, 15, 37.
- Shalaman, *Sirmur* (53 F/1; 36° 51' 30" : 77° 14'), Blaini series, section. G. E. P., **M**, LIII, 20.
- Shalhodi, *Simla* (53 E/4; 31° 11' 30" : 77° 13' 30"), Blaini boulder bed. G. E. P., **M**, LIII, 85, 88.

- Shali Mt., *Simla* (53 E/8; 31° 11' 30" : 77° 17'), limestone and slates. H. B. M., **M**, III, pt. 2, 49; C. A. M., **R**, X, 213; G. E. P., **M**, LIII, 120.
- Shaliganga R., *Kashmir* (43 K/9; 33° 55' : 74° 41'), lignitic coalfield. C. S. M., **R**, LV, 243 (Pl. xxviii).
- Shalil, *Persia* (10 I/9; 31° 45' 30" : 50° 32' 30"), Cretaceous-Eocene, section. G. E. P., **M**, XXXIV, pt. 4, 18; Miocene beds, 22, 30; Fars-Bakhtiyari series, 83.
- Shalka (Saluka), *Bankura* (73 M/8; 23° 9' : 87° 22' 30"), meteorite. J. C. B., **M**, XLIII, 264.
- Shalkar, Shalkhar, *Bashahr* (53 I/9; 32° 0' : 78° 34'), Bhabeh series, crinoids. F. S., **M**, V, 19; gypsum. F. R. M., **M**, V, 155.
- Shalkar La, *Bashahr*, see Sumra La.
- Shal-Shal, *Garhwal* (62 B/1; 30° 48' : 80° 4'), Permian-Lias, section. C. L. G., **M**, XXIII, 137 (Pl. xiii); Ladinic beds. A. K., **A. R.** 1901, 27; L. Trias. C. D., **M**, XXXVI, 222 (fig.), 231; Muschelkalk, 258 (fig.); Ladinic stage, 276; Carnio stage, 293 (fig.); Rhætic, 302 (fig.).
- Shalshal Dongo, *Rupshu* (52 L/9; 32° 50' : 78° 37'), Carboniferous limestone. H. H. H., **M**, XXXVI, 93.
- Sham, *Sibi* (39 G/3; 29° 15' : 69° 9'), U. Siwalik unconformity. G. E. P., **R**, XXXVII, 165; M. Khirthar foraminifera. W. L. F. N., **R**, LIX, 138, 143.
- Shamgarh, *Indore* (45 P/12; 24° 12' : 75° 39'), boring for water. T. D. L., **R**, XL, 104.
- Shamil hill, *Persia* (25 A/14; 27° 34' : 56° 51'), Eocene limestone. G. E. P., **M**, XLVIII, pt. 2, 76, 101.
- Shammomaw, *Myitkyina* (92 C/6; 25° 43' 30" : 96° 20'), jadeite. E. H. P., **R**, LXIII, 39.
- Shampur (Shyampur), *Manbhum* (73 I/9; 23° 46' : 86° 42' 30"), Barakar beds. E. H. P., **R**, LXIII, 120=Sampur.
- Shampur, *Rangpur* (78 G/2; 25° 42' : 89° 10'), earthquake, 1897. H. H. H., **M**, XXIX, 284.
- Shampura, *Jaipur* (54 B/12; 26° 9' : 76° 31'), L. Vindhyan unconformity. A. M. H., **M**, XLV, 149 (fig.).
- Shamra, *Sirmur* (53 F/6; 30° 45' : 77° 23'), recumbent fold, Jutogh series. G. E. P., **M**, LIII, 77.
- Shamsh Abari Mt., *Kashmir* (43 F/15; 34° 21' : 73° 58'), Silurian-Trias sequence. D. N. W., **R**, LXV, 203 (Pl. iv).
- Shamshernagar, *Sylhet* (78 P/15; 24° 23' : 91° 55'), Srimangal earthquake, 1918. M. S., **M**, XLVI, 14.
- Shamsunderpore (Shyamsandarpur), *Bankura* (73 J/13; 22° 46' : 86° 53'), spinel and zircon. G. S. I., **R**, XXVII, 69, 112.
- Shanan, *Mandi* (53 A/13; 31° 59' 30" : 76° 48' 30"), hydro-electric project. E. H. P., **R**, LX, 38; L. L. F., **R**, LXV, 44.
- Shangin, *Patiala* (53 E/4; 31° 4' 30" : 77° 7'), zoisite in dolerite. G. E. P., **M**, LIII, 59; hornblende-gneiss, 108.
- Shangrah Dhar, *Sirmur* (53 F/10; 30° 44' : 77° 31'), Boileauganj beds. L. L. F., **R**, LXV, 129.
- Shankalpa glacier, *Almora* (62 B/7; 30° 21' : 80° 20'), survey. G. C., **R**, XXXV, 154 (Pls. lvi, lvii & lxiv); orpiment. XXXVI, 129.

- Shankargudda, *Shimoga* (48 O/5; 13° 55' 30" : 75° 25'), manganese-ore. L. L. F., **M**, XXXVII, 1143.
- Shanki R., *Garkhual* (53 N/13; 30° 59' : 79° 51'), gorge in Rhætic and Liassic beds. C. L. G., **M**, XXIII, 125 (fig.).
- Shanlebyin, *Toungoo* (94 A/7; 19° 26' 30" : 96° 29' 30"), oil seepage. E. H. P., **M**, XL, 178.
- Shansikangon, *Meiktila* (93 D/6; 20° 44' 30" : 96° 16'), quarry site. E. H. P., **R**, LXIII, 34.
- Shan-ting-tzu, *Yunnan* (92 O/5; 25° 50' : 99° 20'), hot spring. J. C. B., **R**, XLVII, 244.
- Shaogar, *Idar* (46 A/14; 23° 37' 30" : 72° 57'), sandstone quarries. C. S. M., **M**, XLIV, 139.
- Shaot, *Simla* (53 E/7; 31° 19' 30" : 77° 28'), gneissose granite. R. D. O., **R**, XXI, 149.
- Shapahan, *Simla* (53 E/4; 31° 5' 30" : 77° 11' 30"), Jutogh overthrust. G. E. P., **M**, LIII, 90.
- Shapodog La, *Ladakh* (52 G/6; 33° 35' : 77° 16'), Triassic limestone. F. S., **M**, V, 345; R. L., **M**, XXII, 169.
- Shapur, *Betul* (55 F/16; 22° 12' : 77° 55'), coalfield. W. T. B., **R**, I, 9; H. B. M., **R**, VIII, 74 (Pl. ii); R. R. S., **M**, XLI, 93=Shahpur.
- Sharag, *Sibi* (34 N/12; 30° 11' : 67° 43'), coal seams. W. T. B., **R**, XV, 151—Shahrag and Sharigh.
- Shardi, *Kashmir* (43 J/1; 34° 47' 30" : 74° 11'), supra-Kuling beds. R. L., **M**, XXII, 156.
- Sharer, *Patiala* (53 E/4; 31° 6' 30" : 77° 2'), Chail limestone. G. E. P., **M**, LIII, 92; Jaunsar conglomerate, 96.
- Shargol, *Ladakh* (52 B/7; 34° 23' 30" : 76° 18'), Tertiary and Triassic beds. R. L., **R**, XII, 40, 44; **M**, XXII, 111; Megalodon limestone, 164 (Pl. iv); C. D., **M**, XXXVI, 316.
- Sharigh, *Sibi* (34 N/12; 30° 11' : 67° 43'), coal seams. W. K., **R**, XXII, 150—Shahrag and Sharag.
- Sharki, *Kohat* (38 K/15; 33° 17' 30" : 70° 59' 30"), Tertiary beds, section. A. B. W., **M**, XI, 211 (Pl. iv, fig. 18).
- Sharqat, *Iraq* (35° 27' 30" : 43° 16'), anticline, Fars series. E. H. P., **M**, XLVIII, 15 (Pl. i).
- Shartalla (Sarthal), *Jammu* (43 O/4; 33° 9' : 75° 2'), 'Great Limestone'. R. L., **R**, IX, 157.
- Sharvoye (Sarvay), *Salem* (58 I/10; 11° 34' : 78° 42' 30"), trap dyke. W. K., **M**, IV, 330.
- Sha-sung, *Yunnan* (92 O/11; 25° 29' 30" : 99° 39' 30"). Red beds, Permian. J. C. B., **R**, XLVII, 238.
- Shathamungalum, *Trichinopoly* (58 N/1; 11° 0' : 79° 5'), Ariyalur fossils. H. F. B., **M**, IV, 131.
- Shatkhirra, *Khulna* (79 F/2; 22° 42' : 89° 5'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 226.
- Shattumboor (Sottaiyanpudur), *Salem* (58 I/4; 11° 9' : 78° 7' 30"), crystalline limestone. W. K., **M**, IV, 272.

- Shaukpin, *L. Chindwin* (84 J/10; 22° 32' : 94° 42'), oil seepage. E. H. P., **M**, XL, 144.
- Shauktaung, *Minbu* (85 I/5; 19° 58' : 94° 28'), Eocene beds, fossils. H. H. H., **R**, XXIX, 74; G. C., **R**, XLI, 227.
- Shawali, *Hazara* (43 F/8; 34° 7' 30" : 73° 17'), Trias-Eocene, section. C. S. M., **M**, XXVI, 114 (fig.).
- Shawitakh pass, *Chitral* (42 H/5; 36° 53' : 73° 26'), Triassic limestone. H. H. H., **R**, XLV, 292.
- Sheftu (Seftah), *Persia* (24 C/5; 29° 55' : 56° 20'), amygdaloid basalt, U. Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 68; travertine, 113.
- Sheikhan (valley), *Miranzai* (38 O/2; 33° 40' : 71° 0'), anticline in Cretaceous beds. C. L. G., **R**, XXV, 87.
- Sheikhpura, *Monghyr* (72 G/16; 25° 8' : 85° 51'), quartzites. H. B. M., **R**, II, 43=Shekhpura.
- Shekar, *Tibet* (71 P/2; 28° 39' : 87° 5'), Cretaceous limestone. A. M. H., **R**, LIV, 226.
- Shekasar, *Jaisalmer* (45 A/3; 27° 17' : 72° 13'), boulder beds. R. D. O., **R**, XIX, 123.
- Shekh Budin, *D. I. Khan* (38 L/15; 32° 18' : 70° 48'), Carboniferous-Siwalik, sections. A. B. W., **M**, XVII, 282 (figs.); fossils, 297; Jurassic plants. O. F., **R**, XIII, 64; Liassic fossils. H. H. H., **R**, XLII, 68.
- Shekhpur, *Kathiawar* (41 N/10; 22° 42' : 71° 33'), Infra-trappoan beds. F. F., **M**, XXI, 89.
- Shekhpura, *Monghyr* (72 G/16; 25° 8' : 85° 51'), soda salts. L. L. F., **R**, LIII, 301=Sheikhpura.
- Shekla, *Ajmer* (45 J/16; 26° 13' : 74° 52'), mica. E. H. P., **R**, LVIII, 30.
- Shekran, *Kalat* (35 I/5; 27° 52' : 66° 26'), lead, antimony and manganese ores. T. H. H., **R**, XXXV, 51; G. F. T., **R**, XXXVIII, 215; L. L. F., **M**, XXXVII, 368, 613=Shekran.
- Shele, *Simla* (53 E/12; 31° 8' 30" : 77° 40'), iron-ore. H. B. M., **M**, III, pt. 2, 178.
- Sheli, *Chamba* (52 D/10; 32° 44' 30" : 76° 38'), iron-ore. R. L., **M**, XXII, 246.
- Snella, *Khasi Hills* (78 O/12; 25° 11' : 91° 38'), earthquake, 1897, silting of rivers. R. D. O., **M**, XXIX, 120=Chela and Cheyla.
- Shellugi, *Bijapur* (56 D/6; 16° 33' : 76° 24' 30"), Intertrappoan chert bed. R. B. F., **M**, XII, 198.
- Shemshanggiri (Simsanggiri), *Garo Hills* (78 K/10; 25° 30' 30" : 90° 37'), coal seam. T. D. L., **R**, XV, 175; R. R. S., **M**, XLI, 25.
- Sheng (Sang) Wang, *Putao* (92 E/9; 27° 50' : 97° 44'), lead mine. M. S., **R**, L, 250.
- Shengaon, *Kolhapur* (47 L/3; 16° 17' : 74° 7'), quartzite fragments in Deccan trap. R. B. F., **M**, XII, 183.
- Shengapetta, *Nellore* (66 B/2; 14° 42' : 80° 2'), Rajmahal beds. W. K., **M**, XVI, 171.
- Shenguttapandy (Sengalattupaddi), *Salem* (58 I/1; 11° 54' : 78° 14' 30"), jointing in gneiss. W. K., **M**, IV, 306.
- Shenkarai (Sengirai), *Puttukkottai* (58 J/15; 10° 15' 30" : 78° 49' 30"), Cuddalore beds and laterite. R. B. F., **R**, XII, 150, 153; **M**, XX, 36, 46, 99.

- Shengri, *Sirmur* (53 F/6;  $30^{\circ} 42' : 77^{\circ} 26'$ ), Blaini conglomerate. H. B. M., **M**, III, pt. 2, 44.
- Shenkotai (Sengottai), *Tinnevely* (58 K/3;  $9^{\circ} 16' 30'' : 78^{\circ} 6'$ ), marble. R. B. F., **M**, XX, 23, 101.
- Sheodpur, Sheopur (Seempathur), *Mambhum* (73 I/10;  $23^{\circ} 39' 30'' : 86^{\circ} 35'$ ), hot spring. V. B., **M**, XVIII, 72; T. O., **M**, XIX, 139.
- Sheola Khala R., *Sirmur* (53 F/5;  $30^{\circ} 49' : 77^{\circ} 16'$ ), overthrust in Blaini beds. G. E. P., **M**, LIII, 27 (fig.).
- Sheorajpur, *Jubbulpore* (64 A/5;  $23^{\circ} 45' : 80^{\circ} 24'$ ), bauxite. C. S. F., **M**, XLIX, 117.
- Sher Baksh, *Afghanistan* (29 G/14;  $33^{\circ} 34' : 61^{\circ} 55'$ ), hippuritic limestone and trap, contact rock. C. L. G., **R**, XVIII, 60.
- Sher Darwaza, *Afghanistan* (38 F/2;  $34^{\circ} 30' 30'' : 69^{\circ} 11'$ ), hornblende-biotite-gneiss. C. L. G., **R**, XXV, 74; H. H. H., **M**, XXXIX, 17.
- Sher Khad, *Mandi* (53 A/10;  $31^{\circ} 30' : 76^{\circ} 42'$ ), Bilaspur fault. H. B. M., **M**, III, pt. 2, 147.
- Sher Khel, *Khyber* (38 O/1;  $33^{\circ} 55' : 71^{\circ} 2'$ ), Triassic beds. H. H. H., **M**, XXVIII, 106.
- Sheranni, *Waziristan* (38 H/9;  $32^{\circ} 53' : 69^{\circ} 38'$ ), U. Nummulitic beds. F. H. S., **R**, XXVIII, 109; troktoilite. H. H. H., **R**, XXIX, 65.
- Sherbaz, *Shahpur* (43 D/6;  $32^{\circ} 39' : 72^{\circ} 15'$ ), oil seepages. E. H. P., **M**, XL, 437.
- Shergarh, *Gwalior* (54 G/14;  $25^{\circ} 36' : 77^{\circ} 56'$ ), quartz reefs. H. B. M., **M**, II, 51.
- Shergotty (Sherghati), *Gaya* (72 D/14;  $24^{\circ} 33' : 84^{\circ} 48'$ ), meteorite. J. C. B., **M**, XLIII, 264.
- Sheria, *Bundi* (54 C/2;  $25^{\circ} 38' : 76^{\circ} 6' 30''$ ), U. Rewah sandstone. A. L. C., **R**, LX, 172.
- Sherifabad, *Persia* (22 P/8;  $36^{\circ} 2' : 59^{\circ} 29'$ ), salt mines. A. H. Schindler, **R**, XVII, 140.
- Shernavala (Chirnamala), *Warangal* (65 C/4;  $17^{\circ} 1' : 80^{\circ} 14' 30''$ ), Cuddapah beds. R. B. F., **R**, XVIII, 21.
- Sherpur (Sirpur), *Balaghat* (55 O/13;  $21^{\circ} 48' : 79^{\circ} 53'$ ), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Sherpur, *Bogra* (78 H/6;  $24^{\circ} 40' : 89^{\circ} 25'$ ), Bengal earthquake, 1885. C. S. M., **R**, XVIII, 204.
- Sherpur, *Chamba* (43 P/14;  $32^{\circ} 35' : 75^{\circ} 57'$ ), 'crush rock'. C. A. M., **R**, XV, 36; gneiss, petrology, XVII, 64.
- Sherpur, *Jaipur* (54 B/8;  $26^{\circ} 3' : 76^{\circ} 25' 30''$ ), L. Vindhyan, section. A. M. H., **M**, XLV, 148 (fig.); unconformity, 150 (fig.).
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- Shettihalli, *Mysore* (57 D/9;  $12^{\circ} 46' : 76^{\circ} 45'$ ), Dharwar band. R. B. F., **R**, XXI, 55.
- Shevaroy hills, *Salem* (58 I/1;  $11^{\circ} 48' : 78^{\circ} 13'$ ), physical features. W. K., **M**, IV, 235; charnockite series. T. H. H., **M**, XXVIII, 179; augite-diorite dyke. **XXX**, 129.

- Shian, *Spiti* (53 I/1; 31° 55' : 78° 2'), Cambrian-Silurian, sections. H. H. H., **M**, XXXVI, 21, 24.
- Shibar pass, *Afghanistan* (38 B/5; 34° 54' : 68° 15'), water-parting. H. H. H., **M**, XXXIX, 5; Fusulina limestone, 27, 50.
- Shibian pass, *Chagai* (34 C/10; 29° 35' : 64° 34'), rhyolite. T. H. H., **R**, XXX, 127.
- Shiddagal, *Bellary* (57 B/9; 14° 48' : 76° 34'), iron-smelting. R. B. F., **M**, XXV, 43, 193.
- Shiddarhalli, *Shimoga* (48 O/13; 13° 48' : 75° 48'), manganese-ore. L. L. F., **M**, XXXVII, 564, 1132, 1148.
- Shigar, *Ladakh* (43 M/11; 35° 25' 30" : 75° 44' 30"), Carboniferous-Triassic beds. R. L., **M**, XXII, 187; serpentinite, 189, 339; bowenite, petrology and analysis. C. A. M., **M**, XXXI, 312.
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- Shigri glacior, *Lahul* (52 H/11; 32° 17' : 77° 36'), antimony-ore. T. H. H., **R**, XXXIX, 214=Bara Shigri glacier.
- Shih-ku, *Yunnan* (92 N/13; 26° 52' : 99° 51'), alluvial gold. J. C. B., **M**, XLVII, 152.
- Shih-la-ta, *Yunnan* (101 K/2; 25° 37' : 102° 13'), Permo-Triassic beds. J. C. B., **R**, XLIV, 113.
- Shih-men-ching, *Yunnan* (92 O/5; 25° 53' 30" : 99° 20'), brine well. J. C. B., **R**, XLVII, 244; **M**, XLVII, 170.
- Shih-tien, *Yunnan* (92 P/2; 24° 43' 30" : 99° 14'), Ordovician and Silurian fossils. J. C. B., **R**, XLIII, 331; XLVII, 222, 225.
- Shih-tung-ssu, *Yunnan* (101 D/9; 24° 51' : 100° 34'), Triassic limestone (?). J. C. B., **R**, LIV, 321.
- Shikar dzong, *Tibet* (71 P/2; 28° 39' : 87° 5'), Spiti shales. H. H. H., **R**, XXXII, 167.
- Shikara Ghat, *Seoni* (55 N/13; 22° 48' : 79° 52'), amethyst. L. L. F., **M**, XXXVII, 213.
- Shikarburaj, *Bundi* (45 O/11; 25° 28' : 75° 40'), U. Rewah sandstone. A. L. C., **R**, LX, 172.
- Shikarpur, *Chhindwara* (55 K/13; 21° 59' : 78° 57'), craterlets in Deccan trap. L. L. F., **R**, XLVII, 120 (figs. & Pls. x-xv).
- Shikarpur, *Purnea*, meteorite, *see* Deari Shikarpur.
- Shikarpur, *Shimoga* (48 N/7; 14° 16' : 75° 21'), manganese-ore. L. L. F., **M**, XXXVII, 1133.
- Shikarpur, *Sukkur* (40 A/9; 27° 57' : 68° 38'), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 115.
- Shilani, *Sirmur* (53 F/2; 30° 32' : 77° 14' 30"), Siwalik beds. H. B. M., **M**, III, pt. 2, 121.
- Shili Kach, *Afghanistan* (34 J/4; 30° 12' : 66° 8'), granitite, petrology. T. H. H., **R**, XXX, 126.
- Shillagoody (Sillakkudi), *Trichinopoly* (58 M/4; 11° 4' 30" : 79° 1'), Ariyalur beds. H. F. B., **M**, IV, 131; cotton and red soils, section, 189 (fig.).

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- Shilong, *Almora* (62 B/3; 30° 29' 30" : 80° 11'), Ordovician fossils. T. W. H. H., **R**, XI, 184.
- Shimakeri, *Bijapur* (47 P/12; 16° 10' : 75° 37'), U. Kaladgi syncline. R. B. F., **M**, XII, 131; hematitic sandstone, 136.
- Shimoga, *Mysore* (48 O/9; 13° 55' : 75° 34'), inlier of gneiss. R. B. F., **R**, XV, 195; **XXI**, 47.
- Shin Dand, *Kohat* (38 O/10; 33° 33' 30" : 71° 37'), lignite. A. B. W., **M**, XI, 295; R. R. S., **M**, XLI, 108.
- Shin Konr, *Waziristan* (38 H/14; 32° 33' : 69° 57'), older alluvium. M. S., **R**, LIV, 96.
- Shinbaian hill, *Thayetmyo* (85 J/13; 18° 57' : 95° 0'), steatite. W. T., **R**, IV, 43=Shynbaiahn hill.
- Shindalingy (Singiliyankomba), *Salem* (58 I/6; 11° 32' : 78° 25' 30"), iron-ore. W. K., **M**, IV, 296.
- Shingargaon, *N. Kanara* (48 I/11; 15° 20' : 74° 33'), manganese-ore. L. L. F., **M**, XXXVII, 649.
- Shingasanpully (Singasanipalli), *Kurnool* (57 M/3; 15° 18' 30" : 79° 7'), anticline, Nallamalai series. W. K., **M**, VIII, 219.
- Shingban, *Hukawng* (92 B/11; 26° 17' : 96° 35'), amber mines. L. L. F., **R**, LXV, 33.
- Shinglung, *E. Turkestan* (52 I/16; 35° 10' : 78° 46' 30"), Triassic limestone. F. S., **R**, VII, 14.
- Shingo (Kunda) La, *Ladakh* (52 F/8; 34° 2' : 77° 22'), nummulitic limestone. F. S., **M**, V, 344; R. L., **R**, XIII, 38; **M**, XXII, 107.
- Shingtalur, *Dharwar* (48 M/16; 15° 3' : 75° 53' 30"), Dharwar series, section. J. M. M., **R**, XXXIV, 104.
- Shinkai, *Afghanistan* (38 G/5; 33° 58' : 69° 17'), coal seams. C. L. G., **R**, XXV, 79; R. R. S., **M**, XLI, 12.
- Shinkai, *Waziristan* (38 L/5; 32° 56' : 70° 22'), Tertiary beds. F. H. S., **R**, XXVIII, 107.
- Shinkiari, *Hazara* (43 F/7; 34° 28' : 73° 16'), 'erratics'. W. T., **R**, XIII, 233.
- Shinmadaung, Shinmataung, *Pakokku* (84 O/2; 21° 34' : 95° 6'), volcanic rocks. E. H. P., **M**, XL, 45; **R**, LX, 87; Tertiary gastropoda. E. V., **R**, LIII, 361 (Pl. xxvi); LV, 63 (Pl. iv).
- Shintabi, *Tavoy* (95 J/3; 14° 29' 30" : 98° 9' 30"), quartzite, Mergui series. J. C. B., **M**, XLIV, 183.
- Shintha, *Wuntho* (83 P/16; 24° 7' 30" : 95° 51'), diorite. G. A. S., **A. R.**, 1900, 61.
- Shipki, *Hundes* (53 I/13; 31° 49' : 78° 45'), gorge of Sutlej R. C. L. G., **M**, XXIII, 22, 25; granite veins in gneiss, 43 (fig.), 195.
- Shir Asiab Shish, *Persia* (24 B/14; 30° 32' : 56° 58'), overfold in Jurassics. G. E. P., **M**, XLVIII, pt. 2, 10, 58 (fig.).



- Shiraz, *Persia* (17 C/10; 29° 37' : 52° 33'), nummulitic limestone. G. E. P., **M**, XXXIV, pt. 4, 74.
- Shirbai, *Singhbhum* (73 J/11; 22° 20' 30" : 86° 39'), kyanite. J. A. D., **M**, LII, 242.
- Shirhatti, *Sangli* (48 M/12; 15° 14' : 75° 35'), manganese-ore. L. L. F., **M**, XXXVII, 646.
- Shirinab R., *Kalat* (34 K/8; 29° 0' : 66° 25'), Oligocene beds. E. V., **R**, XXXV, 64; Laki series, coal seams. XXXVIII, 205 (Pl. ix); Liassic beds, fossils. T. H. H., **R**, XXXVIII, 26.
- Shiroli, *N. Kanara* (48 I/12; 15° 7' : 74° 36'), manganese-ore. E. H. P., **R**, LXII, 59.
- Shisha Alang, Shisha Walang, *Afghanistan* (33 M/6; 35° 42' : 67° 23'), Triassic beds with coal. C. L. G., **R**, XIX, 245; R. R. S., **M**, XLI, 13; fossil plants. H. H. H., **R**, XLII, 72.
- Shishalu (Siraru), *Tehri* (53 J/1; 30° 49' 30" : 78° 11'), Dooban limestone. C. S. M., **R**, XX, 30.
- Shishi, *Chitral* (38 M/14; 35° 36' : 71° 50'), crystalline limestone. H. H. H., **R**, XLV, 281; asbestos. E. H. P., **R**, LV, 14.
- Shittaunggyi, *Tavoy* (95 K/7; 13° 27' : 98° 26'), jointing in granite. J. C. B., **M**, XLIV, 192.
- Shivapuram, *Bellary* (48 N/13; 14° 59' 30" : 75° 53'), calcareous band in Dharwars. J. M. M., **R**, XXXIV, 111.
- Shivrajpur, *Panch Mahals* (46 F/11; 22° 25' : 73° 36' 30"), manganese-ore. E. H. P., **R**, LVIII, 28=Sivrajpur and Soorajpoor.
- Shivasandra, *Tumkur* (57 C/15; 13° 21' : 76° 45'), manganese-ore. L. L. F., **M**, XXXVII, 1152.
- Shobonkhata, *Kamrup* (78 N/5; 26° 47' : 91° 25'), Siwalik beds. G. E. P., **R**, XXXIV, 23.
- Shodipur, *Kohat* (38 O/14; 33° 40' : 71° 59'), palæolithic celt. W. T., **R**, XIII, 176=Shadipur.
- Shogi, *Simla* (53 E/4; 31° 2' 30" : 77° 7' 30"), Jutogh series. G. E. P., **M**, LIII, 107=Shaku.
- Shogor (Shogot), *Chitral* (37 P/16; 36° 1' : 71° 46'), hippuritic limestone. E. H. P., **R**, LV, 38.
- Shoh, *Kohat* (38 O/8; 33° 1' : 71° 17' 30"), nummulitic limestone. A. B. W., **M**, XVII, 259.
- Shoilputty (Jokilpatti), *Ramnad* (58 K/2; 9° 36' : 78° 6' 30"), granitoid gneiss. R. B. F., **M**, XX, 20, 99.
- Sholinghur, *N. Arcot* (57 O/8; 13° 7' : 79° 25'), magnetism in dyke. R. B. F., **R**, XII, 196.
- Shoramali, *Jeypore* (65 N/1; 18° 52' : 83° 1'), laterite. C. S. F., **M**, XLIX, 186.
- Shorapur (Surapur), *Gulbarga* (56 D/14; 16° 31' : 76° 45' 30"), Dharwar outlier. R. B. F., **R**, XXII, 37=Sorapur.
- Shorpur, *Dehra Dun* (53 F/16; 30° 14' : 77° 57' 30"), geodetic station. R. D. O., **M**, XLII, 235.
- Shuaybandor, *Thayetmyo* (85 M/12; 19° 14' : 95° 34' 30"), fossil wood beds, mammalian bones, and concretionary iron-ore. W. T., **R**, II, 82; **M**, X, 253.

- Shuedoung, *Thayetmyo* (85 I/12; 19° 10' : 94° 34'), Axial beds and serpentine. W. T., **R**, IV, 40.
- Shue-gween, *Toungoo* (94 C/13; 17° 55' : 96° 53'), alluvial gold. T. O., **M**, I, 94=Shwegyin.
- Shugram, *Chitral* (42 D/4; 36° 10' 30" : 72° 7'), Devonian fossils. H. H. H., **R**, XLV, 283.
- Shui-chai, *Yunnan* (92 O/7; 25° 15' : 99° 21'), gorge of Mekong. J. C. B., **R**, XLVII, 237 (Pl. xxii, fig. 2).
- Shuidar, *Waziristan* (38 H/13; 32° 46' : 69° 47'), igneous rocks. M. S., **R**, LIV, 98.
- Shukkar Khel, *Kohat* (38 O/3; 33° 21' : 71° 6' 30"), Tertiary beds, section. A. B. W., **M**, XI, 185 (Pl. i, fig. 4).
- Shumbal, *Afghanistan* (38 B/1; 34° 51' : 68° 11'), conglomerate blocks, ? moraine. H. H. H., **M**, XXXIX, 27, 51.
- Shun-chiang, *Yunnan* (92 K/7; 25° 17' : 98° 29'), lava flow. J. C. B., **R**, XLIII, 195.
- Shun-ning Fu, *Yunnan* (92 P/14; 24° 36' : 99° 55'), crystalline rocks. J. C. B., **R**, XLVII, 218; LIV, 298.
- Shupiyan, *Kashmir* (43 K/14; 33° 43' : 74° 50'), meteorite. J. C. B., **R**, XLV, 221 (Pls. xvi, xviii & xix); **M**, XLIII, 265.
- Shura, *Iraq* (35° 59' 30" : 43° 13' 30"), asphalt. E. H. P., **M**, XLVIII, 29.
- Shuragudi, *Ramnad* (58 J/16; 10° 9' : 78° 46'), stone implement. R. B. F., **R**, XII, 154.
- Shushal, *Ladakh* (52 K/10; 33° 36' : 78° 39'), porphyritic gneiss. R. L., **R**, XIII, 30; hot spring. T. O., **M**, XIX, 126=Chushal.
- Shushtar, *Persia* (9 D/16; 32° 2' : 48° 49'), petroleum springs. G. E. P., **M**, XXXIV, pt. 4, 146, 148.
- Shutargardan, *Afghanistan* (38 G/5; 33° 56' : 69° 24'), fault. C. L. G., **R**, XXV, 76; Mesozoic beds, 78; H. H. H., **M**, XXXIX, 20.
- Shwe Male (Malegyi), *Mandalay* (93 B/2; 22° 34' 30" : 96° 5'), cavern. T. D. L., **M**, XXXIX, pt. 2, 25.
- Shwebo, *Burma* (84 N/10; 22° 34' : 95° 42'), earthquakes: Burma, 1912, J. C. B., **M**, XLII, 59, 120; aftershocks, 125, 131; March, 1927. **R**, LXII, 276.
- Shwedwin, *Yamethin* (94 A/1; 19° 53' : 96° 13'), quarry site. E. H. P., **R**, LXIII, 34.
- Shwegu, *Bhamo* (92 D/16; 24° 13' : 96° 48'), coal seam. R. R. S., **M**, XLI, 74; Burma earthquake, 1912, sounds. J. C. B., **M**, XLII, 55, 112.
- Shwe-gyeing, *Henzada* (85 N/8; 18° 3' : 95° 27' 30"), alluvial gold. W. T., **M**, X, 241, 348.
- Shwegyin, *Toungoo* (94 C/13; 17° 55' : 96° 53'), Burma earthquake, 1912. J. C. B., **M**, XLII, 67; gneiss and laterite. E. L. C., **R**, LX, 294, 302=Shue-gween.
- Shwekondaing, *Pakokku* (84 K/1; 21° 49' : 94° 6' 30"), Yaw shales. E. H. P., **R**, LVI, 42.
- Shwemyinde hill, *Mandalay* (84 N/14; 22° 35' : 95° 59'), basalt. T. H. H., **R**, XXXIII, 85; T. D. L., **R**, XXXVI, 43; E. H. P., **M**, XL, 46.
- Shwemyo, *Yamethin* (93 D/4; 20° 2' : 96° 14'), Burma earthquake, 1912. J. C. B., **M**, XLII, 54; effect on wells, 116.

- Shynbaiahn hill, *Thayetmyo* (85 J/13; 18° 57' : 95° 0'), steatite. W. T., **M**, X, 337=Shinbaian hill.
- Shythai (Sailat), *Mymensingh* (78 L/7; 24° 17' 30" : 90° 19'), meteorite. J. C. B., **M**, XLIII, 265.
- Sia, *Punch* (43 G/10; 33° 42' 30" : 73° 37'), L. Siwalik anticline. D. N. W., **M**, LI, 326.
- Siachen glacier, *Ladakh* (52 A/14; 35° 30' : 76° 55'), position of snout. K. M., **R**, LXIII, 260.
- Siah Tank, *Sibi* (39 G/8; 29° 8' : 69° 25'), gypsum bed. W. T. B., **M**, XX, 209.
- Siah-gird, *Afghanistan* (38 A/16; 35° 0' 30" : 68° 52'), hematite bed, Hajigak series. H. H. H., **M**, XXXIX, 25; Helmand series, 26, 48; Tertiary beds, 38.
- Siah-Koh, *Afghanistan* (38 F/15; 34° 24' : 69° 51'), geological structure. C. L. G., **R**, XXV, 70; H. H. H., **M**, XXXIX, 11, 41 (fig.).
- Siah-sang (E.), *Afghanistan* (38 F/2; 34° 31' : 69° 14'), crystalline rocks. H. H. H., **M**, XXXIX, 45.
- Siah-sang (W.), *Afghanistan* (38 B/2; 34° 37' : 68° 7'), slates and quartzites. H. H. H., **M**, XXXIX, 72.
- Sial Ghar, *Lakhimpur* (83 M/7; 27° 18' : 95° 28'), oil sands and coal. E. H. P., **M**, XL, 294.
- Sialdro (Sarodhara), *Jaipur* (45 M/13; 27° 52' : 75° 58' 30"), mica. A. M. H., **R**, LIV, 389.
- Sialec, *Jhabua* (46 J/10; 22° 32' : 74° 40'), pre-trappean denudation of Cretaceous beds. W. T. B., **M**, VI, 313 (fig.).
- Sialkot, *Punjab* (43 L/10; 32° 30' : 74° 32'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 168.
- Sibaing, *Mandalay* (93 C/5; 22° 0' : 96° 16'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 72.
- Sibi, *Baluchistan* (34 O/14; 29° 33' : 67° 53'), sulphur mine. C. L. G., **M**, XVIII, 58.
- Sibia Mukh, *Sadiya* (83 M/5; 27° 57' : 95° 28'), alluvial gold. J. M. M., **R**, XXXI, 224.
- Sibong, *Manipur* (83 L/7; 24° 20' : 94° 15' 30"), chromite. H. S. B., **R**, XLIII, 247; J. C. B., **R**, LVI, 72.
- Sibpur (Shibpur), *Burdwan* (73 M/2; 23° 43' 30" : 87° 3' 30"), coal seam. R. R. S., **M**, XLI, 47.
- Sibsagar, *Assam* (83 J/9; 26° 59' : 94° 38'), Cachar earthquake, 1869. T. O., **M**, XIX, 26; earthquake, 1897, fissures. R. D. O., **M**, XXIX, 110, 340; rainfall. E. H. P., **M**, XL, 274.
- Sibu La, *Tibet* (77 D/12; 28° 8' : 88° 36'), moraines. H. H. H., **M**, XXXVI, 152.
- Siddapan Konda, *Bellary* (57 E/2; 15° 30' : 77° 3'), quartz reef, cupriferous. R. B. F., **M**, XXV, 174, 199.
- Siddapur, *Atraf-i-Balda* (56 F/11; 18° 20' : 77° 35'), Lameta limestone. H. H. H., **R**, XLVIII, 21.
- Sideshar hill, *Puri* (73 H/15; 20° 28' : 85° 46'), trap dyke. V. B., **R**, X, 65.
- Sideshar hill, *Singhbhum* (73 J/6; 22° 36' 30" : 86° 23' 30"), potstone. V. B., **M**, XVIII, 148; kyanite, J. A. D., **M**, LII, 237.

- Sideshwar hill, *Adilabad* (56 M/6;  $19^{\circ} 37' : 79^{\circ} 21'$ ), Vindhyan sandstones. T. W. H. H., **M**, XIII, 13.
- Sidhauli, *Ohhindwara* (55 J/15;  $22^{\circ} 23' : 78^{\circ} 40'$ ), Intertrappean fossils. E. H. P., **R**, LX, 95.
- Sidma, *Surguja* (64 M/8;  $23^{\circ} 14' : 83^{\circ} 16'$ ), Talchir beds. V. B., **R**, VI, 28.
- Sidnal, *Kolhapur* (47 P/4;  $16^{\circ} 1' 30'' : 75^{\circ} 10'$ ), flooring slabs. H. C. J., **R**, LIV, 426, 430.
- Sidoktaya, *Minbu* (84 L/3;  $20^{\circ} 26' : 94^{\circ} 15'$ ), synclinal basin. E. H. P., **R**, LVI, 39.
- Sidpur, *Santal Parganas* (72 P/11;  $24^{\circ} 19' 30'' : 87^{\circ} 39'$ ), hot spring. H. H. H., **R**, XXXVII, 328.
- Sidsar, *Kathiawar* (41 N/6;  $22^{\circ} 36' : 71^{\circ} 28' 30''$ ), fossils, Wadhwan beds. F. F., **M**, XXI, 88.
- Sidugiri, *Garro Hills* (78 K/14;  $25^{\circ} 31' : 90^{\circ} 46'$ ), earthquake, 1897, lake. R. D. O., **M**, XXIX, 156.
- Sigegudda, *Hassan* (57 C/4;  $13^{\circ} 6' : 76^{\circ} 3'$ ), basement beds, Dharwar. R. B. F., **R**, XXI, 48.
- Sigihalli, *Belgaum* (48 I/9;  $15^{\circ} 48' 30'' : 74^{\circ} 40'$ ), Infra-trappean beds. R. B. F., **M**, XII, 169.
- Sigon, *Yamethin* (93 D/3;  $20^{\circ} 22' 30'' : 96^{\circ} 14' 30''$ ), Pegu fossils. E. H. P., **R**, LIX, 74.
- Sih, *Mandi* (53 A/13;  $31^{\circ} 51' : 76^{\circ} 56'$ ), U. Siwalik breccias. H. B. M., **M**, III, pt. 2, 149.
- Sihala, *Rawalpindi* (43 G/2;  $33^{\circ} 32' 30'' : 73^{\circ} 12'$ ), M. Siwalik beds. D. N. W., **M**, LI, 342.
- Sihali, *Hazara* (43 F/7;  $34^{\circ} 22' : 73^{\circ} 21'$ ), Infra-Triassic beds, section. C. S. M., **M**, XXVI, 128 (fig.).
- Siharo (Syahra), *Gwalior* (54 J/8;  $26^{\circ} 11' 30'' : 78^{\circ} 19'$ ), limestone, Morar series. C. A. H., **R**, III, 37.
- Sihod, *Chota Udaipur* (46 F/15;  $22^{\circ} 19' : 73^{\circ} 48'$ ), pegmatites. G. V. H., **R**, LIX, 344.
- Sihor, *Kathiawar* (41 O/14;  $21^{\circ} 43' : 71^{\circ} 57'$ ), obsidian. F. F., **M**, XXI, 98.
- Sihora, *Jubbulpore* (64 A/3;  $23^{\circ} 29' : 80^{\circ} 6'$ ), manganiferous iron-ore. P. N. B., **R**, XXI, 84; hematite-jasper. L. L. F., **M**, XXXVII, 828; ferruginous laterite. C. S. F., **M**, XLIX, 111.
- Sihunta, *Chamba* (52 D/3;  $32^{\circ} 18' : 76^{\circ} 5'$ ), gneissose granite. C. A. M., **R**, XVII, 35.
- Sijimali, *Kalahandi* (65 M/2;  $19^{\circ} 30' 30'' : 83^{\circ} 8'$ ), laterite. C. S. F., **M**, XLIX, 184.
- Siju, *Garro Hills* (78 K/11;  $25^{\circ} 21' : 90^{\circ} 41'$ ), coal seam. R. R. S., **M**, XLI, 24 =Seju.
- Sikandar Malai, *Madura* (58 K/1;  $9^{\circ} 52' 30'' : 78^{\circ} 4'$ ), granitoid gneiss. R. B. F., **M**, XX, 12, 99.
- Sikaram, *Afghanistan* (38 F/16;  $34^{\circ} 2' : 69^{\circ} 54'$ ), metamorphic rocks. C. L. G., **R**, XXV, 69, 76.
- Sikhbar, *Darjeeling* (78 A/12;  $27^{\circ} 2' : 88^{\circ} 30' 30''$ ), iron-ore, assay. F. R. M., **M**, XI, 66.

- Sikhipani, *Gangpur* (73 C/1;  $21^{\circ} 59' 30''$  :  $84^{\circ} 14' 30''$ ), epidosite. L. L. F., **R**, LXV, 74.
- Sikosa, *Drug* (64 H/5;  $20^{\circ} 52' 30''$  :  $81^{\circ} 17' 30''$ ), Vindhyan limestone. L. L. F., **R**, L, 277.
- Sikrigali, *Purnea* (72 O/11;  $25^{\circ} 17'$  :  $87^{\circ} 44'$ ), trap dyke. V. B., **M**, XIII, 220; 'kankar', 239.
- Silakank, *Garhwal* (53 N/13;  $30^{\circ} 55'$  :  $79^{\circ} 54'$ ), Haimanta-Trias. C. L. G., **M**, XXIII, 101, 109, 116, 118 (Pl. vi).
- Silani (? Sainwala), *Sirmur* (53 F/6;  $30^{\circ} 32'$  :  $77^{\circ} 15'$ ), coal seams. R. R. S., **M**, XLI, 114.
- Silari, *Nagpur* (55 O/6;  $21^{\circ} 35'$  :  $79^{\circ} 17' 30''$ ), calc-granulite, Sausar series. L. L. F., **R**, LXV, 103.
- Silarpur, *Alwar* (54 A/13;  $27^{\circ} 59'$  :  $76^{\circ} 51'$ ), pegmatite veins. A. M. H., **M**, XLV, 98.
- Silaung, *L. Chindwin* (84 J/16;  $22^{\circ} 10'$  :  $94^{\circ} 58' 30''$ ), basalt plateau. E. H. P., **R**, LXI, 106.
- Silawat pass, *Afghanistan* (38 F/7;  $34^{\circ} 22'$  :  $69^{\circ} 16'$ ), micaceous limestone. C. L. G., **R**, XXV, 75; H. H. H., **M**, XXXIX, 17.
- Silbatta, *Nougong* (83 G/5;  $25^{\circ} 59' 30''$  :  $93^{\circ} 19'$ ), trap flow. F. H. S., **M**, XXVIII, 79; nummulitic limestone, 81.
- Silchar, *Cachar* (83 D/13;  $24^{\circ} 50'$  :  $92^{\circ} 48'$ ), earthquakes: Cachar, 1869. T. O., **M**, XIX, 4; Assam, 1897. R. D. O., **M**, XXIX, 29, 294, 318; rainfall. E. H. P., **M**, XL, 274.
- Sildah, *Midnapore* (73 J/14;  $22^{\circ} 37'$  :  $86^{\circ} 49' 30''$ ), andalusite-schist. W. T. B., **M**, I, 258.
- Sildi, *Ladakh* (43 M/10;  $35^{\circ} 34'$  :  $75^{\circ} 35'$ ), gneissic series. R. L., **R**, XIV, 12, 14.
- Silewada, *Nagpur* (55 O/3;  $21^{\circ} 17' 30''$  :  $79^{\circ} 7' 30''$ ), Kamthi beds, section. W. T. B., **M**, IX, 310.
- Sili, *Ranchi* (73 E/15;  $23^{\circ} 21'$  :  $85^{\circ} 50'$ ), galena. L. L. F., **R**, LIII, 284.
- Siliberi Kho, *Alwar* (54 A/7;  $27^{\circ} 17'$  :  $76^{\circ} 28'$ ), lava flows in Alwar series. A. M. H., **M**, XLV, 17, 43, 89.
- Siliguri, *Darjeeling* (78 B/6;  $26^{\circ} 42'$  :  $88^{\circ} 26'$ ), earthquake, 1897, time record. R. D. O., **M**, XXIX, 63, 71, 76.
- Siliser lake, *Alwar* (54 A/10;  $27^{\circ} 32'$  :  $76^{\circ} 32'$ ), synclines in Delhi system. A. M. H., **M**, XLV, 57 (fig.); hornstone breccia, 67.
- Siljadih, *Ranchi* (73 F/5;  $22^{\circ} 57'$  :  $85^{\circ} 18' 30''$ ), granite-gneiss, analysis. L. A. N., **R**, LXV, 502.
- Sillikeri, *Bijapur* (47 P/12;  $16^{\circ} 9'$  :  $75^{\circ} 32'$ ), flagstones and roofing slates. R. B. F., **M**, XII, 117, 262.
- Silondi, *Jubbulpore* (64 A/7;  $23^{\circ} 21'$  :  $80^{\circ} 23'$ ), Lameta beds, section. C. A. Matley, **R**, LIII, 150.
- Silondi (Silaundi), *Jubbulpore* (64 A/3;  $23^{\circ} 30'$  :  $80^{\circ} 8'$ ), felspar for pottery. F. R. M., **R**, XXII, 144; manganiferous iron-ore. P. N. B., **R**, XXI, 85; L. L. F., **M**, XXXVII, 822.
- Silpiti, *Hoshangabad* (55 F/11;  $22^{\circ} 27'$  :  $77^{\circ} 43'$ ), Bagra limestone and clays. H. B. M., **M**, X, 152.

- Silver Tree G. T. S., *24-Parganas* (79 C/1;  $21^{\circ} 58' : 88^{\circ} 9'$ ), pisolitic manganese-ore. L. L. F., **M**, XXXVII, 631.
- Silwai (Seluai), *Ranchi* (73 E/7;  $23^{\circ} 23' : 85^{\circ} 27'$ ), barytes and lead-ore. L. L. F., **R**, LIII, 253, 284.
- Sima, *Myittha* (92 G/12;  $25^{\circ} 2' : 97^{\circ} 42'$ ), Burma earthquake, 1912. J. C. B., **M**, XLII, 57.
- Simalna, *Garhwal* (53 K/5;  $29^{\circ} 51' : 78^{\circ} 28'$ ), Tal beds, relations with Eocene. C. S. M., **R**, XVIII, 86.
- Simaria, *Rewah* (63 H/1;  $24^{\circ} 48' : 81^{\circ} 9'$ ), laterite. C. S. F., **M**, XLIX, 106 = Simeriah.
- Simbuwala, *Sirmur* (53 F/6;  $30^{\circ} 30' 30'' : 77^{\circ} 20'$ ), Nahan-Siwalik contact, section. H. B. M., **M**, III, pt. 2, 110 (fig.).
- Simdega, *Ranchi* (73 B/10;  $22^{\circ} 36' : 84^{\circ} 30' 30''$ ), mica. L. L. F., **R**, LXV, 57.
- Simeriah, *Rewah* (63 H/1;  $24^{\circ} 48' : 81^{\circ} 9'$ ), laterite. H. B. M., **M**, II, 82 = Simaria.
- Simir, *Karauli* (54 B/12;  $26^{\circ} 13' : 76^{\circ} 41'$ ), Tirohan breccia. A. M. H., **M**, XLV, 146.
- Simiria (Simariya), *Gwalior* (54 F/16;  $26^{\circ} 1' : 77^{\circ} 59'$ ), quartzite, Par series. C. A. H., **R**, III, 35.
- Simla, *Punjab* (53 E/4;  $31^{\circ} 6' : 77^{\circ} 8'$ ), Himalayan series, sections. H. B. M., **M**, III, pt. 2, 32, 53 (figs.); water-supply, 181; pyrites. F. R. M., **M**, V, 166; garnets, 169; geology. R. D. O., **R**, XX, 143 (Pl. x); Jutogh series. G. E. P., **M**, LIII, 100-111 (figs.); earthquakes: Kangra, 1905. C. S. M., **M**, XXXVIII, 74; Burma, 1912, seismogram. J. C. B., **M**, XLII, 86 (Pl. viii); Srimangal, 1918, seismogram. M. S., **M**, XLVI, 39 (Pl. viii).
- Simlipahar, *Mayurbhanj* (73 K/5;  $21^{\circ} 51' 30'' : 86^{\circ} 23'$ ), potstone. P. N. B., **R**, XXXI, 173.
- Simliu (Simblen), *Ohamba* (43 P/14;  $32^{\circ} 36' : 75^{\circ} 54'$ ), trap rocks. H. B. M., **R**, IX, 52; petrology. C. A. M., **R**, XVI, 183.
- Simlong, *Santal Parganas* (72 P/5;  $24^{\circ} 45' 30'' : 87^{\circ} 27'$ ), fire-clay. M. S., **R**, XXXVIII, 140, 142.
- Simra, *Bijawar* (63 D/1;  $24^{\circ} 46' : 80^{\circ} 15'$ ), diamond workings. E. V., **R**, XXXIII, 286.
- Simra, *Santal Parganas* (72 O/8;  $25^{\circ} 2' : 87^{\circ} 21'$ ), trachyte, volcanic focus (?). V. B., **M**, XIII, 220; fire-clay. M. S., **R**, XXXVIII, 140.
- Simrabora (Semarabera), *Hazaribagh* (73 E/10;  $23^{\circ} 37' 30'' : 85^{\circ} 38'$ ), coal seam. V. B., **M**, VI, 122.
- Simratari, *Hazaribagh* (72 H/14;  $24^{\circ} 39' : 85^{\circ} 46' 30''$ ), tinstone. F. R. M., **R**, VII, 43; L. L. F., **R**, LIII, 304.
- Simring, *Darjeeling* (78 B/5;  $26^{\circ} 53' : 88^{\circ} 22'$ ), coal seam. P. N. B., **R**, XXIV, 216.
- Simulclass, *Santal Parganas* (72 P/9;  $24^{\circ} 53' 30'' : 87^{\circ} 33'$ ), Rajmahal beds, section. V. B., **M**, XIII, 210.
- Simultala, *Monghyr* (72 L/10;  $24^{\circ} 43' : 86^{\circ} 32'$ ), monazite crystal. S. Hiswas & B. Maitra, **R**, LV, 333.
- Simunting (Sohmynting), *Jaintia Hills* (83 C/3;  $25^{\circ} 20' : 92^{\circ} 8'$ ), Cretaceous outlier. T. D. L., **R**, XVI, 199; granite. P. N. B., **A. R.**, 1902, 27.
- Sinam hill, *Iraq* (3 N/12;  $30^{\circ} 7' : 47^{\circ} 37'$ ), agglomerate, Hormuz series. G. E. P., **M**, XLVIII, pt. 2, 16; Oman series, 21.

- Sinbaungwe, *Thayetmyo* (85 M/2; 19° 43' : 95° 10'), Burma earthquake, 1912. J. C. B., **M**, XLII, 68=Singbaungwe.
- Sinbo-Sinma, *Tavoy* (95 J/7; 14° 22' : 98° 20'), granite massif. J. C. B., **M**, XLIV, 185; beryl, 225; wolfram mines, 285.
- Sin-chai, *Yunnan* (93 M/13; 23° 57' : 99° 56'), Kao-liang grits. J. C. B., **R**, LIV, 304.
- Sindhwa, *Rewah* (63 L/8; 24° 1' : 82° 23'), coal, analysis. G. S. L., **R**, XXX, 256.
- Sindhri, *Thar Parkar* (40 G/2; 25° 43' : 69° 7' 30'), meteorite. J. C. B., **M**, XLIII, 267.
- Sindia hill, *Bhandara* (55 O/14; 21° 32' : 79° 50'), manganese-ore. L. L. F., **M**, XXXVII, 755.
- Sindigiri, *Bellary* (57 A/15; 15° 22' : 76° 55'), hematite-quartzites, Dharwar. R. B. F., **R**, XXII, 33; **M**, XXV, 150.
- Sindola, *Satara* (47 G/9; 17° 54' : 73° 41'), manganese-ore. L. L. F., **M**, XXXVII, 662.
- Sindon chaung, *L. Chindwin* (84 J/12; 22° 12' : 94° 38'), sulphurous spring. E. H. P., **R**, LXII, 67.
- Sindree, Sindri, *Outch* (40 H/4; 24° 5' : 69° 8'), earthquake, 1819, subsidence. A. B. W., **M**, IX, 32, 44 (Pl. ii); R. D. O., **M**, XLVI, 86, 89 (fig.), 103.
- Sindret, *Sirohi* (45 D/13; 24° 50' : 72° 47' 30'), volcanic agglomerate. E. H. P., **R**, LX, 114; dellenite, twinning of feldspars. A. L. C., **R**, LXV, 163, 173.
- Sindunur, *Raichur* (57 A/13; 15° 46' : 76° 46'), hematite beds, Dharwar. R. B. F., **R**, XXII, 35.
- Sinduribera, *Singhbhum* (73 F/1; 22° 47' : 85° 15'), epidosite. J. A. D., **M**, LIV, 93.
- Siner, *Jodhpur* (45 C/6; 25° 30' 30" : 72° 16'), pebble bed in Malani rhyolite. T. D. L., **M**, XXXV, 62 (Pl. iv, fig. 1).
- Singa Chaung, *L. Chindwin* (84 J/11; 22° 27' 30" : 94° 38'), lignite. E. H. P., **M**, XL, 142; bitumen, 144.
- Singaboga, *Sambalpur* (64 O/13; 21° 49' : 83° 58' 30"), Talchir beds. V. B., **R**, VIII, 105.
- Singaing, *Kyaukse* (93 C/2; 21° 44' : 96° 6'), Burma earthquakes, 1912. J. C. B., **M**, XLII, 51, 121.
- Singanama, *Hoshangabad* (55 J/6; 22° 33' 30" : 78° 29'), Pachmar-Denwa stage, boundary. O. F., **R**, XII, 75.
- Singanamaranahalli, *Mysore* (57 D/8; 12° 11' 30" : 76° 26'), corundum beds. W. K., **R**, XXV, 190.
- Singanpur, *Karauli* (54 F/6; 26° 44' : 77° 17' 30"), fault in Bhandar beds. F. R. M., **M**, VII, 99 (fig.).
- Singapuram, *Bidar* (56 F/12; 18° 8' : 77° 44'), dolerite dyke. H. H. H., **R**, XLVIII, 22.
- Singapuram, *Salem* (58 I/6; 11° 37' 30" : 78° 24' 30"), olivine-norite, petrology. T. H. H., **R**, XXX, 24=Singipooram.
- Singar, *Gaya* (72 H/6; 24° 34' : 85° 30'), pitchblende and triplite. T. H. H., **M**, XXXIV, 31, 51; R. C. B., **R**, XLIV, 24; columbite and tantalite. T. H. H., **R**, XXXIX, 269.

- Singaram, *Warangal* (65 C/13;  $17^{\circ} 59' : 80^{\circ} 50'$ ), Damuda beds. W. T. B., **R**, IV, 109.
- Singaran R., *Burdwan* (73 M/2;  $23^{\circ} 36' : 87^{\circ} 10'$ ), Raniganj stage, section. W. T. B., **M**, III, 83.
- Singareni, *Warangal* (65 C/6;  $17^{\circ} 35' : 80^{\circ} 19'$ ), coalfield. W. K., **R**, V, 65 (Pl. i); **M**, XVIII, 186, 245; W. S., **R**, XXVII, 53 (Pl. iv-vii); R. R. S., **M**, XLI, 97 (Pl. xii); iron-ore beds. R. B. F., **R**, XVIII, 19.
- Singarpur, *Balaghat* (64 B/16;  $22^{\circ} 13' : 80^{\circ} 49' 30''$ ), aluminous laterite. C. S. F., **M**, XLIX, 140.
- Singbaungwe, *Thayetmyo* (85 M/2;  $19^{\circ} 43' : 95^{\circ} 10'$ ), *Dendrophyllia* bed. E. V., **R**, LI, 234=Sinbaungwe.
- Singemund, *Punch* (43 K/1;  $33^{\circ} 56' 30'' : 74^{\circ} 11'$ ), Gondwana beds. D. N. W., **M**, LI, 244.
- Singenpur, *Bastar* (64 H/12;  $20^{\circ} 1' 30'' : 81^{\circ} 34' 30''$ ), L. Vindhyan sandstones. P. N. B., **A. R.**, 1899, 38.
- Singhana, *Jaipur* (44 P/16;  $28^{\circ} 6' : 75^{\circ} 50'$ ), copper-ore and sulphates. C. A. H., **R**, XIII, 245; H. H. H., **R**, XLIV, 19; A. M. H., **R**, LIV, 386.
- Singhe La, *Zangskar* (52 C/13;  $33^{\circ} 58' : 76^{\circ} 54'$ ), Mesozoic rocks. R. L., **M**, XXII, 116; nummulitic limestone. T. D. L., **R**, XXI, 160 (Pl. xiii); XXIII, 67.
- Singhpur, *Panna* (63 D/9;  $24^{\circ} 45' 30'' : 80^{\circ} 34'$ ), diamond workings. E. V., **R**, XXXIII, 287.
- Singing, *Abor Hills* (82 L/13;  $28^{\circ} 54' : 94^{\circ} 48'$ ), marble. J. C. B., **R**, XLII, 253.
- Singipooram, *Salem* (58 I/6;  $11^{\circ} 37' 30'' : 78^{\circ} 24' 30''$ ), iron-ore beds. W. K., **M**, IV, 288=Singapuram.
- Singirikonda, *Guntur* (57 M/13;  $15^{\circ} 52' : 79^{\circ} 58' 30''$ ), magnetite beds. R. B. F., **M**, XVI, 20.
- Singoli, *Mewar* (45 K/16;  $25^{\circ} 10' : 74^{\circ} 59'$ ), Vindhyan boundary. H. B. M., **R**, I, 70.
- Singpoor, *Broach* (46 G/2;  $21^{\circ} 36' : 73^{\circ} 6'$ ), Eocene fossils. W. T. B., **M**, VI, 363.
- Singra, *Palamu* (72 D/4;  $24^{\circ} 6' 30'' : 84^{\circ} 4'$ ), coal seam, section. T. W. H. H., **M**, VIII, 334 (fig.); T. D. L., **R**, XXIV, 143; analyses. R. R. S., **M**, XLI, 60; Karharbari plants. O. F., **R**, XVI, 175.
- Singrapur, *Damoh* (55 M/14;  $23^{\circ} 33' : 79^{\circ} 48'$ ), Rewah and Bhandar beds. F. R. M., **M**, VII, 73; section, 86.
- Singsila, *Sibi* (39 C/16;  $29^{\circ} 5' 30'' : 68^{\circ} 52'$ ), freshwater shell beds, Nari series. G. E. P., **R**, XXXVII, 142=Sangsila.
- Singu, *Myingyan* (84 L/13;  $20^{\circ} 56' 30'' : 94^{\circ} 51'$ ), oilfield. G. E. G., **M**, XXVIII, 32 (Pls. ii, iii); E. H. P., **M**, XL, 114 (Pl. xxix); Miocene fossils. F. N., **R**, XXVIII, 74; G. C., **R**, XXXVI, 131; E. V., **R**, LIII, 331 (Pl. xx); **M**, L, 27, 306; vertebrate fossils. G. E. G., **M**, XXVIII, 46.
- Singurh, *Poona* (47 F/15;  $18^{\circ} 22' : 73^{\circ} 45' 30''$ ), volcanic ash, Deccan trap. W. T. B., **M**, VI, 143.
- Singwarra, *Rewah* (64 A/15;  $23^{\circ} 24' : 80^{\circ} 57'$ ), Intertrappean beds, section. J. G. M., **M**, II, 203; W. K., **M**, XVI, 245.



- Sini, *Singbhum* (73 F/13; 22° 47' : 85° 57'), kyanite and staurolite. J. A. D., **M**, LII, 228; **LIV**, 53.
- Sinjori, *Afghanistan* (34 E/10; 31° 30' : 65° 32'), olivine-dolerite. C. L. G., **M**, XVIII, 52.
- Sink (Simk), *Persia* (24 F/2; 30° 30' : 57° 13'), Jurassic rhyolite. G. H. T., **R**, LIII, 58 (Pl. xi, fig. 2); dolerite dyke, 60.
- Sinkan, *Bhama* (92 H/4; 24° 8' : 97° 1'), change in course of Irrawaddy. J. C. B., **R**, XLIII, 179.
- Sinkar, *Andamans* (86 D/15; 12° 29' : 92° 52'), olivine-basalt, petrology. E. R. G., **R**, LIX, 213 (Pl. xiv, fig. 3).
- Sinmadaung, *Thayetmyo* (85 I/13; 19° 49' 30" : 95° 0'), Pegu anticline. H. H. H., **R**, XLII, 78.
- Sinsamaw, *Wuntho* (83 P/12; 24° 4' : 95° 34'), brine spring. F. N., **R**, XXVII, 119.
- Sinthe (Sinseik), *Tavoy* (95 J/3; 14° 16' : 98° 13'), tinstone. J. C. B., **M**, XLIV, 217, 278.
- Sinya (Sonia), *Khasi Hills* (78 O/6; 25° 41' : 91° 26'), earthquake, 1897, change of level. R. D. O., **M**, XXIX, 157; landslips, 121.
- Sipri (Shivpuri), *Narwar* (54 G/11; 25° 26' : 77° 30'), Vindhyan escarpments. F. R. M., **M**, VII, 18; Bhander limestone, 91; roofing flags, 117.
- Sir Bu Na'air I., *Persian Gulf* (18 K/4; 25° 13' : 54° 14'), Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 142.
- Sir Hugh Rose I., *Andamans* (87 E/1; 11° 47' : 93° 6'), shelly limestone, fossiliferous. E. R. G., **R**, LIX, 218.
- Sir Maudslayi, *Afghanistan* (29 G/15; 33° 17' : 61° 54'), Cretaceous fossils. H. D., **R**, LVIII, 340.
- Sira, *Almora* (62 C/1; 29° 49' : 80° 14' 30"), copper-ore. A. W. L., **R**, II, 87.
- Sirajganj, *Pabna* (78 H/11; 24° 27' : 89° 44' 30"), earthquake, 1897. G. E. G., **M**, XXIX, 301 (Pl. xxix)=Serajganj.
- Siraw (Sharaw Ga), *Hukawng* (92 B/6; 20° 41' : 96° 28'), Tipam sandstones. M. S., **R**, LIV, 404.
- Sirban Mt., *Hazara* (43 F/4; 34° 7' : 73° 12'), geology. W. W., **M**, IX, 331 (figs. & Pl. ii); geological sequence. A. B. W., **R**, XII, 124.
- Sirbo hill, *Rewah* (63 H/3; 24° 22' : 81° 0'), rippling in Vindhyan sandstones. J. G. M., **M**, II, 143; Sirbu shales, section. F. R. M., **M**, VII, 84=Sirgo hill.
- Sirbong, *Sikkim* (78 A/8; 27° 10' 30" : 88° 15'), copper-ore. T. H. H., **R**, XXXIX, 239.
- Sirgo hill, *Rewah* (63 H/3; 24° 22' : 81° 0'), aluminous laterite. C. S. F., **M**, XLIX, 106=Sirbo hill.
- Singora, *Ohhindwara* (55 J/16; 22° 12' : 78° 53'), coalfield. W. T. B., **R**, XV, 124; E. J. J., **M**, XXIV, 20 (Pl. i); iron-ore, assay, 57; building stone 58; R. R. S., **M**, XLI, 94.
- Sirgumpoor (Sirukanbur), *Trichinopoly* (58 I/16; 11° 9' 30" : 78° 55' 30"), Utatur beds, coral-reef limestone. H. F. B., **M**, IV, 57; irregular deposition, 87.
- Sir-i-ab, *Quetta-Pishin* (34 J/16; 30° 7' : 66° 59'), Cretaceous limestone. C. L. G., **M**, XVIII, 36 (fig.); W. T. B., **M**, XX, 140.

- Sir-i-Apsh, *Persia* (24 F/1;  $30^{\circ} 50' : 57^{\circ} 6'$ ), Devonian fossils (?). G. H. T., **R**, LIII, 56.
- Sir-i-Bolan, *Bolan Pass* (34 O/5;  $29^{\circ} 54' : 67^{\circ} 16'$ ), passage beds, Cretaceous-Eocene. C. L. G., **M**, XVIII, 22.
- Sirijang, *Singhbhum* (73 F/2;  $22^{\circ} 33' : 85^{\circ} 12'$ ), tuffs, Iron Ore series. J. A. D., **M**, LIV, 64.
- Sirimela, *Kohat* (38 O/11;  $33^{\circ} 23' : 71^{\circ} 39'$ ), Tertiary beds, section. A. B. W., **M**, XI, 202 (Pl. iii, fig. 15); salt quarries, 315.
- Sirka, *Hazaribagh* (73 E/6;  $23^{\circ} 39' : 85^{\circ} 26' 30''$ ), coal seams. A. J., **M**, LII, 97 (Pls. vii, viii & x).
- Sirka (Serka), *Palamau* (73 A/9;  $23^{\circ} 51' 30'' : 84^{\circ} 42'$ ), iron-ore. V. B., **M**, XV, 80.
- Sirkia Kotal, *Afghanistan* (38 G/5;  $33^{\circ} 57' : 69^{\circ} 28'$ ), plant beds. C. L. G., **R**, XXV, 79.
- Sirkia R., *Hundes* (53 M/16;  $31^{\circ} 5' : 79^{\circ} 57'$ ), Cretaceous beds. C. L. G., **M**, XXIII, 79 (fig.), 128; Spiti shales, 127; diorite, petrology. C. A. M., **R**, XIX, 118.
- Sirkotonga, *Surguja* (64 M/4;  $23^{\circ} 1' : 83^{\circ} 4'$ ), boundary fault, Lakanpur coalfield. V. B., **R**, XV, 110.
- Siro (Saroh), *Jammu* (43 K/8;  $33^{\circ} 12' : 74^{\circ} 27' 30''$ ), coalfield. T. D. L., **R**, XXI, 68; R. R. S., **M**, XXXII, 219 (Pl. i); XLI, 101.
- Sirobagar, *Garhwal* (53 J/16;  $30^{\circ} 14' 30'' : 78^{\circ} 54'$ ), basic lava, petrology. C. S. M., **R**, XXI, 14.
- Siroli, *Korea* (64 I/7;  $23^{\circ} 16' : 82^{\circ} 16' 30''$ ), Archæan inlier. L. L. F., **M**, XLI, 163.
- Sironcha, *Chanda* (56 N/13;  $18^{\circ} 51' : 79^{\circ} 58'$ ), Kamthi sandstones. W. K., **R**, X, 61; XIII, 14; **M**, XVIII, 258; T. W. H. H., **R**, XI, 23.
- Sirpo R., *Abor Hills* (82 P/4;  $28^{\circ} 8' : 95^{\circ} 14'$ ), Damuda coal. J. C. B., **R**, XLII, 239, 252.
- Sirraikhwa, *Kohat* (38 O/4;  $33^{\circ} 10' : 71^{\circ} 11''$ ), anomalous position of gypsum. A. B. W., **M**, XI, 273 (fig.); rock-salt, 322.
- Sirri I., *Persian Gulf* (18 K/9;  $25^{\circ} 54' : 54^{\circ} 32'$ ), Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 142.
- Sirsa, *Mayurbhanj* (73 J/12;  $22^{\circ} 14' : 86^{\circ} 39' 30''$ ), mica. P. N. B., **R**, XXXI, 171.
- Sirsa, *Moradabad* (53 L/9;  $28^{\circ} 54' 30'' : 78^{\circ} 32'$ ), geodetic station. R. D. O., **M**, XLII, 218.
- Sirsa La, *Zangskar* (52 B/16;  $34^{\circ} 6' : 76^{\circ} 47'$ ), Triassic limestones and dolomite. R. L., **R**, XIII, 47; zoisite. T. D. L., **R**, XXIII, 67; serpentine, petrology. C. A. M., **M**, XXXI, 316.
- Sirsaut (Sarsod), *Isagarh* (54 L/2;  $24^{\circ} 41' : 78^{\circ} 14'$ ), Vindhyan-granite boundary. H. B. M., **M**, II, 60.
- Sirsa, *Hazaribagh* (72 L/3;  $24^{\circ} 22' : 80^{\circ} 14'$ ), garnet with pyroxene and galena, L. L. F., **M**, XXXVII, 185, 616.
- Sirsol, *Burdwan* (73 M/2;  $23^{\circ} 38' : 87^{\circ} 6' 30''$ ), colliery, method of working, W. T. B., **M**, III, 165=Searsole.
- Sirur, *Bijapur* (47 P/16;  $16^{\circ} 6' : 75^{\circ} 47'$ ), L. Kaladgi beds. R. B. F., **M**, XII, 108.

- Siruvani R., *Malabar* (58 A/12; 11° 5' : 76° 39'), dam-site. H. H. H., R, LI, 11; E. H. P., R, LXII, 48.
- Sirwell, *Kurnool* (57 I/11; 15° 19' : 78° 32'), hot spring. T. O., M, XIX, 148.
- Sirwigh-o-gaz, *Chitral* (37 P/12; 36° 2' : 71° 40'), beryl. E. H. P., R, LV, 13.
- Sisagadh, *Cutch* (41 E/8; 23° 6' : 69° 21'), carbonaceous shale. R. R. S., M, XLI, 61=Seesaghud.
- Sيسان, *Idar* (46 E/1; 23° 50' : 73° 11' 30"), Mundeti series. C. S. M., M, XLIV, 54.
- Siset, *S. Shan States* (93 D/13; 21° 0' : 96° 47'), lead-ore. J. C. B., R, LXV, 400.
- Sisi R., *Abor Hills* (82 L/13; 28° 46' : 94° 56'), copper-ore. J. C. B., R, XLII, 253.
- Sisi R., *Lakhimpur* (83 I/10; 27° 36' : 94° 44'), coal reported. R. R. S., M, XLI, 15.
- Sisla Dan, *Rewah* (63 L/11; 24° 28' : 82° 32'), uralite-diabase, petrology. E. V., M, XXXI, 83.
- Sispara, *Nilgiri* (58 A/8; 11° 12' : 76° 27'), trap dykes. H. F. B., M, I, 226.
- Sissi Mukh, *Lakhimpur* (83 I/11; 27° 16' 30" : 94° 45'), earthquake, 1897, silting of river. R. D. O., M, XXIX, 163.
- Sisunda, *Ganjam* (73 D/12; 20° 3' : 84° 43'), mica. T. H. H., M, XXXIV, 58.
- Sit chaung, *Pakokku* (84 K/4; 21° 2' : 94° 14'), Tertiary gastropoda. E. V., R, LIV, 244; LV, 65.
- Sita, *Jaipur* (54 F/1; 26° 59' : 77° 7' 30"), conglomerates, Nithahar stage. A. M. H., R, XLVIII, 190.
- Sita R., *Sind* (35 M/6; 27° 35' : 67° 25'), Gaj beds, section. W. T. B., M, XVII, 81; Nari beds, 82.
- Sitabaldi, *Nagpur* (55 O/4; 21° 9' : 79° 5'), gneiss. W. T. B., M, IX, 301; Lameta sandstone, 316.
- Sitabani, *Naini Tal* (53 O/3; 29° 24' : 79° 13'), fault in U. Siwaliks. C. S. M., M, XXIV, 96.
- Sitadongri, *Betul* (55 F/12; 22° 9' : 77° 42'), augen-gneiss. H. H. H., R, XLVII, 37.
- Sitagondi, *Nagpur* (55 O/3; 21° 28' 30" : 79° 4' 30"), rhodonite. L. L. F., M, XXXVII, 140; manganese-ore, 861.
- Sitakund, *Chittagong* (79 N/10; 22° 38' : 91° 41'), hot springs. T. O., M, XIX, 150; gas seepages. E. H. P., M, XL, 313.
- Sitakund, *Monghyr* (72 K/11; 25° 22' : 86° 32'), hot spring. T. O., M, XIX, 141; T. H. H., R, XXXIX, 265.
- Sitalpur (Shitalpur), *Burdwan* (73 I/14; 23° 41' : 86° 50' 30"), coal seams. R. R. S., M, XLI, 45.
- Sitamani, *Bijapur* (47 P/15; 16° 19' : 75° 53' 30"), basal beds, Kaladgi series. R. B. F., M, XII, 81.
- Sitamarchi, *Muzaffarpur* (72 F/6; 26° 35' : 85° 29'), proposed deep boring for water. T. D. L., R, XL, 103.
- Sitang Gongma, *Bupshu* (52 L/6; 32° 39' : 78° 21'), *Productus* shales. H. H. H., M, XXXVI, 93.

- Sitapar, *Chhindwara* (55 K/14; 21° 44' : 78° 52'), hollandite. L. L. F., **R**, XXXVI, 295; sitaparite. XXXVII, 207; braunite crystals. XLI, 45; manganese-ore. **M**, XXXVII, 785 (Pl. xxii); ferromorite. H. H. H., **R**, XLI, 61; arrangement of ores. XLVII, 15.
- Sitapathur, *Balaghat* (55 O/10; 21° 41' : 79° 40'), manganese-pyroxene. L. L. F., **M**, XXXVII, 135, 136; manganophyllite (?), 197, 198; magnetite, 216; manganese-ore, 739.
- Sitarampett, *Warangal* (65 C/4; 17° 3' : 80° 11' 30'), granite-gneiss. R. B. F., **R**, XVIII, 15.
- Sitarampur, *Burdwan* (73 I/14; 23° 43' : 86° 54'), coal seam. W. T. B., **M**, III, 111; R. R. S., **M**, XLI, 47.
- Sitarampuram, *Nellore* (57 M/4; 15° 1' : 79° 8'), Archæan quartzites. R. B. F., **M**, XVI, 12.
- Sitariva R., *Narsinghpur* (55 J/14; 22° 45' : 78° 50'), Damuda beds, section. J. G. M., **M**, II, 169 (fig.); H. B. M., **R**, III, 65 (fig.); Jabalpur beds. **M**, X, 148; Bagra conglomerate, 151.
- Sitasaongi, *Bhandara* (55 O/10; 21° 31' 30" : 79° 45'), ottrelite. L. L. F., **M**, XXXVII, 200, 313; manganese-ore, 760.
- Sitathali, near Narra, *Raipur* (64 L/5; 20° 54' : 82° 29'), meteorite. J. C. B., **M**, XLIII, 267.
- Sitaura, *Patna* (72 G/8; 25° 2' : 85° 29'), hot spring. T. O., **M**, XIX, 142.
- Sithampundi, *Salem* (58 E/16; 11° 14' : 77° 54' 30'), corundum with anorthite. T. H. H., **A. R.**, 1899, 24; **M**, XXX, 149=Sittampundi.
- Sitra, *Persian Gulf* (11 J/12; 26° 10' : 50° 37'), Eocene limestone with flints. G. E. P., **M**, XXXIV, pt. 4, 118; springs, 124.
- Sitsaba, *Thayelmyo* (85 M/4; 19° 4' : 95° 14'), Tertiary gastropoda. E. V., **R**, LIII, 130; LV, 70.
- Sitsayahn (Sitsayan), *Thayelmyo* (85 N/1; 18° 55' : 95° 8' 30'), Oligocene shales. W. T., **M**, X, 269.
- Sittampundi, *Salem* (58 E/16; 11° 14' : 77° 54' 30'), corundum with anorthite. C. S. M., **R**, XXIX, 40 (Pl. vii, figs. 1, 2)=Sithampundi.
- Sittang, Sittoung, *Thaton* (54 C/15; 17° 27' : 96° 53'), laterite. W. T., **M**, X, 246; gneisses. E. H. P., **R**, LX, 80.
- Sittawywa, *Ramri I.* (85 E/11; 19° 23' : 93° 36'), mud volcanoes. E. H. P., **M**, XL, 187.
- Sivaganga, *Ramnad* (58 K/5; 9° 51' : 78° 29'), boulder beds, U. Gondwana. R. B. F., **R**, XII, 148; Cuddalore sandstones, 150; **M**, XX, 38, 101; lateritic conglomerate, 48.
- Sivalpatti, *Ramnad* (58 K/8; 9° 8' : 78° 21'), sand dunes. R. B. F., **M**, XX, 94.
- Sivamalai, *Coimbatore* (58 E/12; 11° 2' : 77° 32'), elæolite- and corundum-syenites. T. H. H., **A. R.**, 1898, 26; **M**, XXX, 169 (figs.).
- Sivandhoravalsa, *Vizagapatam* (65 N/7; 18° 24' : 83° 27'), manganese-ore. L. L. F., **M**, XXXVII, 464, 1048.
- Sivarajpur, *Panch Mahals* (46 F/11; 22° 25' : 73° 36' 30"), pyrolusite. L. L. F., **M**, XXXVII, 80; black quartzite, 343 (Pl. x, fig. 1); manganese-ore, 652 (figs. & Pl. xvii, fig. 2)=Shivarajpur and Soorajpoor.

- Sivaram, *Vizagapatam* (65 N/11; 18° 16' : 83° 35'), manganese-ore. L. L. F., **M**, XXXVII, 1077.
- Sivok, *Darjeeling* (78 B/5; 26° 53' : 88° 28' 30"), Tertiary sandstones, lignite. P. N. B., **R**, XXIV, 212.
- Sivonia (Sivnia), *Banswara* (46 I/7; 23° 19' 30" : 74° 16'), manganese-ore. L. L. F., **M**, XXXVII, 1158.
- Siwana, *Jodhpur* (45 C/6; 25° 39' : 72° 25'), granite, Malani series. T. D. L., **A**, **R**, 1898, 37; **M**, XXXV, 24; petrology, 90; Malani rhyolite, 60.
- Siwenuchika (Sovinocheka), *Naga Hills* (83 K/2; 25° 41' 30" : 94° 0'), Naogaon sandstone. E. H. P., **R**, XLII, 257.
- Si-yang, *Yunnan* (101 O/4; 25° 6' : 103° 6'), coal seams. J. C. B., **R**, XLIV, 103; **M**, XLVII, 76.
- Skardu, *Ladakh* (43 M/11; 35° 18' : 75° 39'), gneiss. R. L., **R**, XIV, 7; lacustrine and glacial deposits, 8, 48; **M**, XXII, 66, 70; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 190.
- Skirbiohan, *Ladakh* (52 B/11; 34° 26' : 76° 43'), Tertiary beds, relations with gneiss. R. L., **M**, XXII, 101 (fig.).
- Skiu, *Ladakh* (52 G/5; 34° 0' : 77° 16'), Tertiary conglomerates. R. L., **M**, XXII, 108; Triassic beds, 166=*Kew and Kio*.
- Skoru La, *Ladakh* (43 M/14; 35° 34' : 75° 49'), Triassic beds. R. L., **R**, XIV, 11.
- Sleemanabad, *Jubbulpore* (64 A/6; 23° 38' : 80° 15'), copper- and lead-ores, T. W. H. H., **R**, III, 70; dolomite, analysis. F. R. M., **R**, XVI, 113; fluorite in quartz-porphyry. L. L. F., **R**, XXXIII, 62; barytes. T. H. H., **R**, XXXIX, 218; aluminous laterite. C. S. F., **M**, XLIX, 115.
- Smallan, *Loralai* (39 B/7; 30° 16' : 68° 17'), Jurassic-Tertiary beds. F. N., **A**, **R**, 1903, 50.
- Smit, *Khasi Hills* (78 O/14; 25° 30' : 91° 54' 30"), diorite dykes. P. N. B., **A**, **R**, 1902, 28.
- Smith I., *Andamans* (86 G/3; 13° 20' : 93° 4'), jasper conglomerate, Eocene. G. H. T., **M**, XXXV, 197.
- Sneiron, *Ladakh* (43 M/11; 35° 18' : 75° 37'), hot spring. T. O., **M**, XIX, 125.
- Soap, *Kashmir* (43 O/6; 33° 37' : 75° 18'), iron works. R. L., **R**, XI, 50; **M**, XXII, 335; T. D. L., **R**, XXIII, 68.
- Soat hill, *Sirmur* (53 F/6; 30° 41' : 77° 26'), Krol and Blaini beds. G. E. P., **M**, LIII, 31.
- Sobha, *Khariar* (64 L/4; 20° 10' : 82° 10'), granitic porphyry. V. B., **R**, X, 185.
- Sobhadih, *Ranchi* (73 F/9; 22° 54' 30" : 85° 44' 30"), calc-schist and phyllite. J. A. D., **M**, LIV, 30 (Pl. xiii, fig. 1); 'feather' amphibolite, 50.
- Sobheda, *Idar* (46 E/6; 23° 39' : 73° 16'), Delhi quartzite. C. S. M., **M**, XLIV, 92.
- Sobrian, *Hazara* (43 F/6; 34° 31' 30" : 73° 22'), Panjal trap. D. N. W., **R**, LXV, 212.
- Sobruh, *Hazara* (43 F/4; 34° 10' : 73° 9'), quartz veins in phyllites. C. S. M., **M**, XXVI, 53; quartz-schists, Tanawal series, 56; section, 229 (fig.).
- Soch, *Hazara* (43 F/9; 34° 56' 30" : 73° 42'), Eocene beds (?). R. L., **R**, XV, 22.

- Sodawas, *Jodhpur* (45 F/14;  $26^{\circ} 37' 30'' : 73^{\circ} 49'$ ), Vindhyan limestone, boundary. A. M. H., R, LXV, 474.
- Sodawud, *Panch Mahals* (46 F/16;  $22^{\circ} 7' 30'' : 73^{\circ} 54'$ ), granite fragments in trap. W. T. B., M, VI, 333.
- Sodepur, *Burdwan* (73 I/14;  $23^{\circ} 42' 30'' : 86^{\circ} 51' 30''$ ), coal seam. R. R. S., M, XLI, 47.
- Sodhi, *Shahpur* (43 D/6;  $32^{\circ} 35' : 72^{\circ} 16'$ ), hot spring. T. O., M, XIX, 115.
- Sodpur, *Idar* (46 E/6;  $23^{\circ} 39' : 73^{\circ} 20'$ ), quartz-tourmaline rock. C. S. M., M, XLIV, 66.
- Soga, *Singhbhum* (73 F/1;  $22^{\circ} 46' 30'' : 85^{\circ} 12'$ ), amphibole-chlorite-rock. J. A. D., M, LIV, 58, 95 (Pl. xii, fig. 4); actinolite-epidote-rock, 82.
- Sogul, *Belgaum* (48 I/13;  $15^{\circ} 51' : 74^{\circ} 58'$ ), waterfalls. R. B. F., M, XII, 98.
- Sohagi Ghat, *Rewah* (63 H/9;  $24^{\circ} 59' : 81^{\circ} 42'$ ), L. Rewah stage, section. F. R. M., M, VII, 65; U. Rewah sandstone, 72; travertine, 116; barytes, 122.
- Sohagpur, *Rewah* (64 E/7;  $23^{\circ} 19' : 81^{\circ} 21'$ ), coalfield. T. W. H. H., R, XIV, 316; M, XXI, 177 (Pls. vii, viii); R. R. S., M, XLI, 78; Raniganj plants. O. F., R, XIII, 186.
- Sohandih, *Saraikeela* (73 F/13;  $22^{\circ} 47' : 85^{\circ} 57'$ ), inclusions in granite. J. A. D., M, LIV, 106.
- Sohawa, *Jhelum* (43 G/8;  $33^{\circ} 7' : 73^{\circ} 25' 30''$ ), L. Siwalik syncline. D. N. W., M, LI, 332.
- Sohawal, *Baghelkhand* (63 D/14;  $24^{\circ} 34' : 80^{\circ} 46'$ ), ochre. L. L. F., R, XLVI, 279.
- Sohla, *Patiala* (53 D/4;  $28^{\circ} 14' 30'' : 76^{\circ} 2'$ ), iron-ore. P. N. B., R, XXXIII, 57.
- Sohna, *Gurgaon* (53 H/4;  $28^{\circ} 15' : 77^{\circ} 4'$ ), gold and graphite. C. A. H., R, XIII, 249; Alwar quartzites. A. M. H., M, XLV, 37; gold and graphite, 120, 123=Sunah.
- Sojat, *Jodhpur* (45 G/9;  $25^{\circ} 56' : 73^{\circ} 40'$ ), Vindhyan-Aravalli unconformity. C. A. H., R, XIV, 300; T. D. L., M, XXXV, 26; A. M. H., R, LXV, 478 (fig.).
- Sokha, *Jaintia Hills* (83 C/4;  $25^{\circ} 12' 30'' : 92^{\circ} 2' 30''$ ), Cretaceous fossils. P. N. B., A. R., 1902, 27.
- Sokhta Chinar, *Afghanistan* (38 M/12;  $35^{\circ} 7' : 67^{\circ} 42'$ ), Cretaceous and Tertiary beds, unconformity. H. H. H., M, XXXIX, 57.
- Solan, *Solan, Simla* (53 F/1;  $30^{\circ} 55' : 77^{\circ} 6'$ ), Himalayan series, section. H. B. M., M, III, pt. 2, 23 (fig.); G. E. P., M, LIII, 5.
- Somadulpilly (Somayajulapallo), *Kurnool* (57 I/2;  $15^{\circ} 35' : 78^{\circ} 11'$ ), copper-ore. W. K., M, VIII, 269.
- Somalapuram, *Bellary* (57 A/8;  $15^{\circ} 2' : 76^{\circ} 29' 30''$ ), steatite. F. R. M., R, XXII, 62=Somulapur.
- Somavaram, *Kistna* (85 D/13;  $16^{\circ} 56' : 80^{\circ} 54' 30''$ ), Kamthi plants. W. K., M, XVI, 210; XVIII, 266.
- Somnapalli, *Adilabad* (56 N/10;  $18^{\circ} 42' : 79^{\circ} 44' 30''$ ), Kamthi beds. W. K., M, XVIII, 255.
- Somrah, *Hughly* (79 A/8;  $23^{\circ} 8' : 88^{\circ} 26'$ ), Calcutta earthquake, 1906. C. S. M., R, XXXVI, 223.

- Somulapur, *Bellary* (57 A/8; 15° 2' : 76° 29' 30"), potstone. R. B. F., **M**, XXV, 128, 204=Somalapuram.
- Somulapur, *Bijapur* (57 A/5; 15° 56' : 76° 19'), chloritic schist. R. B. F., **M**, XII, 49.
- Somwarpet, *Coorg* (48 P/14; 12° 36' : 75° 51'), charnockite dykes. T. H. H., **M**, XXVIII, 228.
- Son Sakesar Kahar, *Shahpur* (43 D/2; 32° 33' : 72° 2'), lake. A. B. W., **M**, XIV, 46; 62 (fig.); T. D. L., **R**, XL, 43 (Pls. iii, xii & xiii).
- Sona Pahar, *Khasi Hills* (78 O/2; 25° 40' : 91° 4'), corundum and sillimanite. J. A. D., **M**, LII, 167, 243 (figs. & Pl. xxiv).
- Sona R., *Garhwal* (53 K/10; 29° 35' : 78° 43'), alluvial gold. A. W. L., **R**, II, 88; Nahar-Siwalik beds, sections. C. S. M., **M**, XXIV, 122, 139 (Pls. ii, fig. 7 & iii, fig. 8).
- Sonachora, *Burdwan* (73 M/2; 23° 38' : 87° 9'), coal seam. R. R. S., **M**, XLI, 46.
- Sonada, *Darjeeling* (78 B/5; 26° 58' : 88° 16' 30"), earthquake, 1897, time record. R. D. O., **M**, XXIX, 63, 71.
- Sonadi, *Betul* (55 F/15; 22° 16' : 77° 48'), coal seams. J. G. M., **M**, II, 111, 268; W. T. B., **R**, I, 9; H. B. M., **R**, VIII, 82; R. R. S., **M**, XLI, 93.
- Sonakan, *Raipur* (64 K/11; 21° 23' : 82° 35'), 'Transition' rocks. F. H. S., **A. R.**, 1899, 39.
- Sonakhan, *Raipur* (64 K/10; 21° 31' : 82° 34'), old gold mine. L. L. F., **R**, L, 283.
- Sonam, *Garhwal* (53 M/4; 31° 11' : 79° 6'), contortions in Haimanta beds. C. L. G., **M**, XXIII, 201 (fig.).
- Sonamarg, *Kashmir* (43 N/7; 34° 18' : 75° 18'), moraines. R. L., **R**, XII, 20; XIV, 50; **M**, XXII, 34; R. D. O., **R**, XXXI, 147, 154 (Pls. xi, xiv); Carboniferous and Triassic beds. R. L., **R**, XII, 18; XV, 19; **M**, XXII, 145; C. S. M., **R**, XLI, 141; Kangra earthquake, 1905. **M**, XXXVIII, 189, 191.
- Sonamunge, Sonamganj, *Sylhet* (78 O/8; 25° 4' : 91° 24'), lime-burning. T. O., **M**, I, 181; earthquake, 1897, fissuring of river banks. T. D. L., **M**, XXIX, 276.
- Sonamookhy, *Bankura* (73 M/7; 23° 18' : 87° 25'), lateritic gravel. W. T. B., **M**, I, 269.
- Sonapani glacier, *Lahul* (52 H/7; 32° 25' : 77° 23'), survey. H. W-r, **R**, XXXV, 141 (fig. & Pls. xl-xliii & lx).
- Sonapet (Sonopeth), *Ranchi* (73 F/9; 22° 53' : 85° 42'), alluvial gold. V. B., **R**, II, 11; **M**, XVIII, 142; F. N., **R**, XXIII, 73 (Pls. xi, xii); J. M. M., **R**, XXXI, 63; assays, 83; reef quartz, assays, 77; anticline, Iron Ore series. J. A. D., **M**, LIV, 22; auriferous veins, 162.
- Sonari, *Sibi* (39 C/10; 29° 40' : 68° 31'), Belemnite beds, Cretaceous. R. D. O., **R**, XXV, 20.
- Sonawani, *Balaghat* (55 O/13; 21° 55' : 79° 53' 30"), Archaean sedimentaries. C. S. M., **R**, XLV, 132.
- Sondenhalli, *Tumkur* (57 C/11; 13° 21' 30" : 76° 40' 30"), manganese-ore. L. L. F., **M**, XXXVII, 1153.
- Sondri, *Jodhpur* (40 O/5; 25° 59' : 71° 16'), Barmer sandstones. T. D. L., **M**, XXXV, 77.

- Sonegaon, *Balaghat* (55 O/14; 21° 41' : 79° 47'), rhodonite. L. L. F., **M**, XXXVII, 141; manganese-ore, 706.
- Sonegaon, *Nagpur* (55 O/7; 21° 25' 30" : 79° 25'), manganese-ore. L. L. F., **M**, XXXVII, 949.
- Sonekhari, *Bhandara* (55 O/16; 21° 6' 30" : 79° 48'), kyanite-rock. S. K. C., **R**, LXV, 293.
- Song, *Sikkim* (78 A/12; 27° 14' 30" : 88° 30' 30"), riebeckite-granitite. T. H. H., **R**, XXV, 160 (fig.).
- Songadh, *Kathinwar* (41 N/2; 22° 36' 30" : 71° 13'), Umia stage, plants. F. F., **M**, XXI, 81.
- Songra, *Singhbhum* (73 F/5; 22° 47' 30" : 85° 21'), actinolite-schist. V. B., **M**, XVIII, 130.
- Songyaung, *L. Chindwin* (84 N/4; 22° 12' 30" : 95° 3'), crater lake. E. H. P., **R**, LXI, 105.
- Songyi, *Meiktila* (93 D/5; 20° 55' : 96° 26'), coal seams. E. J. J., **R**, XX, 178.
- Sonia, *Jodhpur* (45 F/11; 26° 24' : 73° 44' 30"), Aravalli slates. A. M. H., **R**, LXV, 468; Vindhyan sandstones, 476.
- Sonkach, *Bhopal* (55 E/3; 23° 21' 30" : 77° 13'), laterite. C. S. F., **M**, XLIX, 108.
- Sonnahalli, *Mysore* (57 D/8; 12° 11' : 76° 25'), Dharwar outlier, old gold workings. R. B. F., **R**, XXII, 22.
- Sonpur, *Burdwan* (73 M/2; 23° 42' : 87° 14'), coal seam. R. R. S., **M**, XLI, 46.
- Sonpur, *Eastern States* (64 P/13; 20° 51' : 83° 55'), porphyritic gneiss. V. B., **R**, X, 182.
- Sonpur, *Ranchi* (73 F/9; 22° 59' : 85° 33' 30"), altered tuff. J. A. D., **M**, LIV, 70.
- Sonpuram, *Vizagapatam* (65 N/6; 18° 30' : 83° 18'), manganese-ore. L. L. F., **M**, XXXVII, 508, 1107 (fig.).
- Sonpurgarh, *Ranchi* (73 F/1; 22° 56' 30" : 85° 11' 30"), mica-schist inclusions in granite. J. A. D., **M**, LIV, 118, 124; porphyritic granite. L. A. N., **R**, LXV, 498.
- Sonputi, *Balaghat* (64 C/5; 21° 57' : 80° 28'), bauxite. L. L. F., **M**, XXXVII, 694; analysis. C. S. M., XLIX, 135.
- Sonsin, *Tavoy* (95 K/6; 13° 44' 30" : 98° 22'), molybdenite. J. C. B., **M**, XLIV, 219.
- Sontalai, Sontulai, *Hoshangabad* (55 B/15; 22° 21' : 76° 52'), iron-ore. J. G. Nicholls, **R**, XII, 173; wad, analysis. L. L. F., **R**, XXXI, 48; **M**, XXXVII, 114, 802.
- Sonua, *Singhbhum* (73 F/6; 22° 35' : 85° 28'), metamorphosed phyllites. J. A. D., **M**, LIV, 38; tuffs, 62, 64; Ongabira trap, 136.
- Sonurla, *Kolhapur* (47 H/13; 16° 48' : 73° 57'), lateritic iron-ore. H. C. J., **R**, LIV, 428.
- Soojapoor, *Cutch* (41 A/15; 23° 21' 30" : 68° 52' 30"), Miocene beds. section. A. B. W., **M**, IX, 270=Sujapur.
- Sooki R., *Behul* (55 F/15; 22° 15' : 77° 47'), coal seams. J. G. M., **M**, II, 269=Suki R.



- Sookpur, *Cutch* (41 A/11; 23° 22' 30" : 68° 45'), Gaj series, mollusca. E. V., M, L, 426, 434, 435.
- Soolekere Tank, *Shimoga* (48 N/16; 14° 8' : 75° 55'), mica. T. H. H., M, XXXIV, 68=Sulekere Tank.
- Soomjam (Sumsam), *Kishtwar* (52 C/7; 33° 25' : 76° 25'), sapphire mines. T. D. L., R, XXIII, 61 (Pls. vii-ix); T. H. H., R, XXXIX, 189=Sumjam.
- Soomrow, *Cutch* (41 A/15; 23° 22' : 68° 48'), Gaj series, mollusca. E. V., M, L, 11, 273, 301, 319.
- Soorajpoor, *Panch Mahals* (46 F/11; 22° 25' : 73° 36' 30'), Champaner beds. W. T. B., M, VI, 204; manganese-ore, 341; L. L. F., M, XXXVII, 651=Shivrajpur and Sivarajpur.
- Soorka hill, *Cutch* (41 A/14; 23° 42' : 68° 59'), Jurassic fossils. W. W., R, IV, 90.
- Sooroojbera, *Santal Parganas* (72 P/10; 24° 39' : 87° 37'), Rajmahal plants. O. F., R, IX, 39.
- Sooronga (Suranga), *Manbhum* (73 1/6; 23° 42' 30" : 86° 27' 30"), Talchir plants. T. W. H. H., M, V, 233; Barakar beds, 247.
- Soortoor, *Dharwar* (48 M/12; 15° 14' 30" : 75° 36' 30"), Dharwar schists, auriferous reefs. R. B. F., R, VII, 134=Sortur and Surtur.
- Soory, *Birbhum* (73 M/9; 23° 54' : 87° 32'), iron-ore, assay. V. B., M, XIII, 248=Suri.
- Soplye (Suplai), *Hoshangabad* (55 F/15; 22° 25' : 77° 58' 30"), greenstone-porphry dyke. J. G. M., M, II, 224 (fig.).
- Sopona, *Spiti* (53 I/5; 31° 59' : 78° 20'), Monotis shales. H. H. H., M, XXXVI, 83.
- Sopur, *Kashmir* (43 J/7; 34° 17' : 74° 28' 30"), earthquake, 1885. E. J. J., R, XVIII, 223.
- Sor, *Rawalpindi* (43 G/6; 33° 41' : 73° 29'), M. Siwalik beds. D. N. W., M, LI, 356.
- Sora (Shora), *Rae Bareilly* (63 F/3; 26° 17' 30" : 81° 12'), geodetic station. R. D. O., M, XLII, 213.
- Sorai (Sonrai), *Jhansi* (54 L/15; 24° 19' : 78° 46'), altered Bijawar rocks. H. B. M., M, II, 34; copper-ore, 35 (note); F. R. M., R, I, 10.
- Sorapur, *Gulbarga* (56 D/14; 16° 31' : 76° 45' 30"), tors of granitoid gneiss. R. B. F., M, XII, 43=Shorapur.
- Sorarogha, *Waziristan* (38 L/2; 32° 31' : 70° 1' 30"), older alluvium. M. S., R, LIV, 96.
- Soree pass, *D. G. Khan* (39 J/7; 30° 16' : 70° 28'), sulphur mine. V. B., R, VII, 157.
- Sorna R., *Dehra Dun* (53 F/15; 30° 24' : 77° 53'), Nahan conglomerate. H. B. M., M, III, pt. 2, 114.
- Soro, *Balasore* (73 K/11; 21° 17' : 86° 42'), potstone. L. L. F., R, LIII, 302.
- Sortur, *Dharwar* (48 M/12; 15° 14' 30" : 75° 36' 30"), alluvial gold. J. M. M., R, XXXIV, 119=Soortoor and Surtur.
- Sosang, *Keonjhar* (73 F/12; 22° 0' 30" : 85° 40'), granite. E. H. P., R, LX, 77.
- Setani, *Sirmur* (53 F/5; 30° 48' : 77° 23'), marble, Jutogh series. G. E. F., M, LIII, 81.
- Sottalinni, *N. Arcot* (57 R/3; 12° 28' 30" : 79° 10'), iron-ore. E. H. P., R, LXI, 64, 123.

- Soutapalem (Tsautapalem), *Nellore* (57 M/10; 15° 44' : 79° 42'), talc schists, R. B. F., **M**, XVI, 22.
- South Corbyn, *Andamans* (87 A/14; 11° 38' 30" : 92° 46'), limestone. F. R. M., **R**, XVII, 85.
- Sperwam Khajur Kach, *Waziristan* (38 L/3; 32° 18' : 70° 12'), Siwalik beds. M. S., **R**, LIV, 94.
- Spider I., *Mergui* (95 K/12; 13° 10' : 98° 32'), tin- and tungsten-ore. J. C. B., **R**, I, 118.
- Spin Kamar, *Tirah* (38 O/1; 33° 52' 30" : 71° 14' 30"), Carboniferous-Trias, faulted junction. H. H. H., **M**, XXVIII, 106.
- Spin Karez, *Quetta-Pishin* (34 N/4; 30° 13' : 67° 9'), coal seam. R. R. S., **M**, XLI, 35.
- Spina, *Kohat* (38 O/4; 33° 12' 30" : 71° 14'), rock-salt. H. W., **M**, XI, 322.
- Spinbaldak, *Afghanistan* (34 I/8; 31° 0' 30" : 66° 23'), hippuritic limestone. C. L. G., **M**, XVIII, 33, 40.
- Spinchilla, *Waziristan* (38 H/13; 32° 55' : 69° 49'), igneous rocks. M. S., **R**, LIV, 97.
- Spintangi, *Sibi* (39 C/1; 29° 56' 30" : 68° 6'), junction of Eocene and Siwalik beds. W. T. B., **M**, XX, 196; oil seepages. R. D. O., **R**, XXIII, 57; Eocene beds, section, 97; XXV, 23.
- Spueh, *Bashahr* (53 I/9; 31° 46' : 78° 36'), Cambrian schists. H. H. H., **M**, XXXVI, 9.
- Spur Point, *Dekra Dun* (53 J/3; 30° 25' : 78° 3'), geodetic station. R. D. O., **M**, XLII, 242 (note).
- Sraog (Sareg), *Chamba* (52 D/3; 32° 18' 30" : 76° 7'), gneissose granite. C. A. M., **R**, XVII, 35.
- Sreeshalum (Srisailam), *Kurnool* (56 L/16; 16° 4' : 78° 52'), quartzites, Kistna series. W. K., **M**, VIII, 252.
- Sriharikota I., *Nellore* (66 C/2; 13° 45' : 80° 12'), sand dunes. W. K., **M**, XVI, 183.
- Srikote, *Hazara* (43 F/7; 34° 25' 30" : 73° 26'), Eocene-Infra-Trias unconformity. C. S. M., **M**, XXVI, 131.
- Srimangal, *Sylhet* (78 P/11; 24° 18' : 91° 43'), earthquake, 1918. M. S., **R**, XLIX, 173 (Pls. xi, xii); **M**, XLVI, pt. 1 (figs. & Pls. i-xiii).
- Srinagar, *Ajmer* (45 J/14; 26° 26' : 74° 46' 30"), felspathic quartzites, Alwar series. C. A. H., **R**, XIV, 286.
- Srinagar, *Dacca* (79 I/6; 23° 33' : 90° 18'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 329.
- Srinagar, *Garhwal* (53 J/10; 30° 13' : 78° 46'), basic lavas, petrology. C. S. M., **R**, XXI, 13.
- Srinagar, *Kashmir* (43 J/16; 34° 6' : 74° 48'), earthquakes: Kashmir, 1885. E. J. J., **R**, XVIII, 222; Kangra, 1905. C. S. M., **M**, XXXVIII, 191.
- Srinagar, *Narsinghpur* (55 N/9; 22° 57' : 79° 31'), outliers, Jabalpur series. H. B. M., **M**, X, 143.
- Sripermatoor (Sriperumbudur), *Chingleput* (57 F/13; 12° 58' : 79° 57'), Rajmahal plant beds. H. F. B., **M**, IV, 177; R. B. F., **R**, III, 15; XI, 253; sections. **M**, X, 61 (fig.), 101.
- Ssu-ch'eng, *Yunnan* (101 L/9; 24° 25' : 102° 8'), iron-stone mine. J. C. B., **M**, XLVII, 94.

- S'su-mao T'ing, *Yunnan* (102 F/1; 22° 48' : 101° 2'), Permo-Triassic beds. J. C. B., **R**, LIV, 318.
- Stach (Istach), *Chitral* (42 D/11; 36° 27' : 72° 40'), orpiment mines. L. L. F., **R**, LIV, 17.
- Strait I., *Andamans* (86 D/16; 12° 12' : 92° 56'), sharks' teeth. E. R. G., **R**, LIX, 222.
- Sua, *Palamau* (73 A/1; 24° 0' : 84° 6' 30"), crystalline limestone. L. L. F., **R**, LXV, 35; magnetite, 51.
- Sua Am, *Chhindwara* (55 J/11; 22° 18' : 78° 30' 30"), pre-trappean erosion of Bijori beds. L. L. F., **R**, LXV, 96.
- Subagyidan, *Minbu* (84 L/12; 20° 4' : 94° 31' 30"), Tertiary gastropoda. E. V., **R**, LIV, 244=Sabagyidan.
- Subansiri R., *Lakhimpur* (83 I/N. W.; 27° 30' : 94° 16'), alluvial gold. W. K., **R**, XVII, 192; J. M. M., **R**, XXXI, 224; Anthracolithic fauna. C. D., **R**, XXXII, 189 (Pl. viii).
- Subarnarekha R., *Singhbhum* (73 J/N. W.; 22° 53' : 86° 6'), metamorphic rocks, section. V. B., **M**, XVIII, 84.
- Subathu, *Simla* (53 B/13; 30° 58' : 76° 59'), Nummulitic beds. H. B. M., **M**, III, pt. 2, 11, 74; junction with slates, 78 (fig.).
- Subban, *Rawalpindi* (43 G/1; 33° 46' : 73° 11'), Eocene beds, section. D. N. W., **M**, LI, 352.
- Subhagewali, *Attock* (43 C/6; 83° 35' 30" : 72° 28'), Murree series, basal beds. E. H. P., **M**, XL, 387.
- Subornkholi, *Pabna* (78 H/14; 24° 33' : 89° 49'), Bengal earthquake, 1885. C. S. M., **R**, XVIII, 210.
- Sucha, *Hazara* (43 F/6; 34° 39' : 73° 25'), Infra-Trias beds. D. N. W., **R**, LXV, 208.
- Sudi Konda, *Nalgonda* (56 O/3; 17° 23' 30" : 79° 7'), diorite dykes. R. B. F., **R**, XVIII, 30.
- Sudkal, *Attock* (43 C/10; 33° 34' 30" : 72° 38'), oil seepages. A. B. W., **R**, III, 73; H. H. H., **R**, XLIV, 22=Sadkal.
- Sudul, *Kohat* (38 O/7; 33° 22' : 71° 26' 30"), contortion in Nummulitic beds. A. B. W., **M**, XI, 196 (Pl. ii, fig. 11).
- Suct, *Chanda* (55 L/15; 20° 17' : 78° 49'), waterfall. T. W. H. H., **M**, XIII, 6.
- Suganhalli, *Sangli* (48 M/12; 15° 5' 30" : 75° 41' 30"), talc-schists, Dharwar. J. M. M., **R**, XXXIV, 111; hornblende-schists, 112.
- Sugum (Sangam), *Chhindwara* (55 K/14; 21° 32' 30" : 78° 53'), calcareous band in schists. P. N. D., **R**, XXXIII, 223.
- Sugundra, *Nagpur* (55 O/3; 21° 29' : 79° 2'), manganese-ore (?). L. L. F., **M**, XXXVII, 859.
- Suidud R., *Surguja* (64 M/2; 23° 37' : 83° 13'), gorge in Barakar sandstone. C. L. G., **M**, XV, 187 (fig.).
- Suin R., *Mandi* (53 A/14; 31° 42' : 76° 47'), Siwalik boundary. H. B. M., **M**, III, pt. 2, 147.
- Suinj R., *Simla* (53 F/9; 30° 49' : 77° 36'), carbonaceous limestone, Jutogh series. H. B. M., **M**, III, pt. 2, 43; R. D. O., **R**, XX, 158; G. E. P., **M**, LIII, 39.
- Sujanpur, *Kangra* (53 A/9; 31° 50' : 76° 31'), old moraine. W. T., **R**, VII, 88; XIII, 238.

- Sujapur, *Cutch* (41 A/15; 23° 21' 30" : 68° 52' 30"), Gaj series, *Venus*. E. V., **M**, L, 454=Soojapoor.
- Sujkot, *Hazara* (43 F/8; 34° 0' : 73° 17' 30"), gorge in Nummulitic beds. C. S. M., **M**, XXVI, 196.
- Sukakheri, *Narsinghpur* (55 J/13; 22° 49' : 78° 48'), experimental boring. H. B. M., **R**, VII, 4; VIII, 66; XI, 7; XIV, 215; R. R. S., **M**, XLI, 91.
- Sukchar, *Goalpara* (78 G/14; 25° 44' : 89° 54'), earthquake, 1897, sand-vents. T. D. L., **M**, XXIX, 261.
- Suket, *Simla* (53 A/14; 31° 32' 30" : 76° 54'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 76.
- Sukhdongar, *Ohhindwara* (55 J/7; 22° 23' 30" : 78° 29'), composite dyke, Deccan trap. E. H. P., **R**, LXIII, 113.
- Sukhido, *Salween* (94 F/3; 18° 30' : 97° 9'), Plateau Limestone. E. L. C., **R**, LX, 298.
- Suki R., *Betul* (55 F/15; 22° 15' : 77° 47'), coal area. H. B. M., **R**, VIII, 81 (Pl. ii); R. R. S., **M**, XLI, 93=Sooki R.
- Sukkur, *Sind* (40 A/14; 27° 42' : 68° 52'), Khirthar limestone. W. T. B., **M**, XVII, 101, 105; foraminifera. W. L. F. N., **R**, LIX, 135-142, 145; boring for oil. T. D. L., **R**, XXVIII, 55; Nummulitic Shales. E. S. P., **R**, XLIX, 145.
- Sukla, *Seoni* (55 O/9; 21° 55' 30" : 79° 41'), bedded deposit at base of laterite. R. C. B., **R**, XLVIII, 208.
- Sukli, *Balaghat* (55 O/10; 21° 39' : 79° 40'), manganese-pyroxene. L. L. F., **M**, XXXVII, 136; manganchlorite, 195; manganese-ore, 742.
- Sukness (Sokhniz), *Kishtwar* (43 O/9; 33° 59' : 75° 31'), Carboniferous fossils. R. L., **R**, XIII, 58.
- Sukra, *Jubbulpore* (64 A/3; 23° 28' : 80° 8' 30"), manganiferous hematite. P. N. B., **R**, XXI, 75=Sakri.
- Sukras, *Indore* (55 B/14; 22° 40' : 76° 49'), Bijawar quartzites. T. H. H., **R**, XXXVII, 49.
- Sukri, *Balaghat* (64 B/16; 22° 8' : 80° 54'), bauxite. C. S. F., **M**, XLIX, 141.
- Sukri R., *Palamau* (73 A/5; 23° 48' : 84° 26'), *Vertebraria*. R. D. O., **R**, XXX, 49 (Pls. iv, v).
- Suktara, *Seoni* (55 O/9; 21° 56' : 79° 31'), dykes, Deccan trap ago. H. H. H., **R**, XLIV, 36.
- Suktawa R., *Hoshangabad* (55 F/15; 22° 24' : 77° 52'), boring for coal. H. B. M., **R**, VIII, 69.
- Sulaik, *Aden* (7 C/14; 13° 32' : 44° 52'), Jurassic limestone. R. E. L., **R**, XXXVIII, 318=Saleik.
- Sulaiya, *Palamau* (73 A/14; 23° 43' : 84° 50' 30"), Barakar stage. A. J., **M**, LII, 55.
- Sulekere Tank, *Shimoga* (48 N/16; 14° 8' : 75° 55'), manganese-ore. L. L. F., **M**, XXXVII, 1145=Soolekere Tank.
- Sulgi, *Shahpur* (38 P/15; 32° 29' : 71° 55'), oil seepage. C. S. M., **R**, XLIX, 213.
- Sulhud, *Hazara* (43 F/4; 34° 8' : 73° 12'), 'perched block'. A. B. W., **R**, XII, 132; Triassic fossils. W. W., **M**, IX, 339; C. S. M., **M**, XXVI, 28.
- Suliakhera, *Merwara* (45 K/1; 25° 49' : 74° 5'), mica. T. H. H., **M**, XXXIV, 70.
- Suliechunwan, *Palamau* (73 A/14; 23° 42' 30" : 84° 57' 30"), coal seams. A. J., **M**, LII, 60.

- Sulimalai, *Wynaad* (58 A/7; 11° 27': 76° 22'), auriferous reefs. H. H. H., **M**, XXXIII, pt. 2, 21.
- Sulkma, *Rewah* (63 D/16; 24° 7': 80° 59'), Kheinjua limestone. P. N. D., **M**, XXXI, 151.
- Sulkhun, *Mirzapur* (63 P/2; 24° 34': 83° 3'), inlier, L. Vindhyan. F. R. M., **M**, VII, 46, 127=Sulkhan.
- Sullavai, *Warangal* (65 B/4; 18° 12' 30": 80° 6'), L. Vindhyan sandstones. W. K., **M**, XVIII, 228; Talchir boulder bed, 240; Barakar beds (?), 248.
- Sulpan, *Rajpipla* (46 G/13; 21° 49': 73° 47' 30"), oyster bed, Cretaceous. P. N. B., **R**, XXXVII, 171.
- Sultan Maidan, *Persia* (22 L/6; 36° 42': 58° 23'), nummulitic limestone. C. L. G., **R**, XIX, 64.
- Sultanganj, *Bhagalpur* (72 K/12; 25° 15': 86° 44'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 326.
- Sultani Kotai, *Persia* (10 I/1; 31° 50': 50° 5'), Cretaceous shales. G. E. P., **M**, XXXIV, pt. 4, 85.
- Sultanpathri, *Punch* (43 K/5; 33° 51' 30": 74° 22'), norite and gabbro. D. N. W., **M**, LI, 222; moraines, 308.
- Sultanpur, *Ballia* (72 C/1; 25° 56': 84° 13'), meteorite. H. W.-r, LV, 133 (Pls. xx, xxi).
- Sultanpur, *Kulu* (53 E/1; 31° 57': 77° 6'), Krol series. H. B. M., **M**, III, pt. 2, 58; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 57 (fig. & Pl. xiii).
- Sultanpur, *Rajshahi* (78 D/13; 24° 48': 88° 58'), earthquakes: Cutch, 1819. R. D. O., **M**, XLVI, 114; Assam, 1897. H. H. H., **M**, XXIX, 280.
- Sultanpur, *United Provs.* (63 J/3; 26° 16': 82° 4'), geodetic station. R. D. O., **M**, XLII, 225.
- Sultan's Battery, *Wynaad* (58 A/6; 11° 39': 76° 16'), biotite-granite. H. H. H., **M**, XXXIII, pt. 2, 14, 17.
- Sumblah, *Rawalpindi* (43 G/6; 33° 39' 30": 73° 24'), Siwalik escarpment. D. N. W., **M**, LI, 357.
- Sumedha, *Bilaspur* (64 J/11; 22° 24': 82° 38'), coal analyses. W. K., **R**, XIX, 223; XX, 199.
- Sumesari, Sumesurri R., *Garo Hills* (78 K/11; 25° 21': 90° 41'), coal outcrops. H. B. M., **R**, I, 12; Cretaceous and Tertiary beds. **M**, VII, 165, 179; section 193 (fig.)=Semsang R.
- Sumjam (Sumsam), *Kishwar* (52 C/7; 33° 25': 76° 25'), amblygonite. F. R. M., **R**, XXXII, 228=Soomjam.
- Sumra La, *Bashahr* (52 L/12; 32° 2': 78° 33'), Carboniferous limestone, conversion to gypsum. H. H. H., **M**, XXXVI, 41; igneous rocks, 45, 98.
- Sun, *Punch* (43 G/9; 33° 49': 73° 42' 30"), Palandri stage, antiline. D. N. W., **M**, LI, 274; reversed fault, 331.
- Sun, *Rawalpindi* (43 G/10; 33° 40' 30": 73° 33' 30"), Murree beds, antiline. D. N. W., **M**, LI, 271, 278, 322.
- Sunab, *Oman* (26 I/6; 23° 33': 58° 24'), serpentine sill Oman series. G. E. P., **M**, XXXIV, pt. 4, 97.
- Sunafdeo, *E. Khandesh* (46 O/7; 21° 19': 75° 21'), hot spring. T. O., **M**, XIX, 134.

- Sunah, *Gurgaon* (53 H/4; 28° 15'; 77° 4'), hot spring, sulphurous. T. O., **M**, XIX, 131=Sohna.
- Sunak, *Idar* (46 E/6; 23° 37'; 73° 17'), mica-schist. C. S. M., **M**, XLIV, 64; white pyroxene-rock, 67.
- Sunari, *Sambalpur* (64 O/14; 21° 40'; 83° 46'), granite and quartzites. V. B., **R**, X, 183.
- Sunari, *Sibi* (39 B/4; 30° 2' 30": 68° 1'), inclusions of gypsum in limestone. R. D. O., **R**, XXIII, 98; coal seams, 107; R. R. S., **M**, XLI, 32.
- Sundargarh, *Gangpur* (73 B/4; 22° 7'; 84° 2'), brecciated quartz. L. L. F., **R**, LXV, 74.
- Sunderganj, *Rangpur* (78 G/10; 25° 34'; 89° 32'), earthquake, 1897, sand-vents. R. D. O., **M**, XXIX, 320.
- Sundri, *Yasin* (42 H/7; 36° 17'; 73° 23'), granite. H. H. H., **R**, XLV, 296.
- Sundri (Samundri) R., *Lakhimpur* (83 I/4; 27° 13'; 94° 6'), coal. R. R. S., **M**, XLI, 14.
- Sundully pass, *Kohat* (38 O/14; 33° 43'; 71° 58'), Eocene beds. W. W., **R**, XVII, 120.
- Sunehri Dandh, *Karachi* (40 C/4; 25° 1'; 68° 7'), Alveolina limestone. W. T. B., **M**, XVII, 151.
- Sunglewan, *Shahpur* (43 D/6; 32° 32'; 72° 21'), coal seam. R. R. S., **M**, XLI, 109.
- Sung-ming Chou, *Yunnan* (101 O/3; 25° 21'; 103° 0'), Fusulina limestone. J. C. B., **R**, XLIV, 111.
- Sungnam, *Bashahr* (53 I/5; 31° 45' 30": 78° 29'), Simla slates. C. A. M., **R**, XII, 58; Cambrian beds. H. H. H., **M**, XXXVI, 10, 19.
- Sungri, *Bashahr* (53 E/11; 31° 18' 30": 77° 42'), metamorphic rocks. C. A. M., **R**, X, 218.
- Sungrumpoor hill, *Banda* (63 C/16; 25° 10'; 80° 49'), Semri beds, junction with granite. H. B. M., **M**, II, 17 (fig.).
- Sunhat, *Korea* (64 I/11; 23° 29'; 82° 31'), coal seams. T. W. H. H., **M**, XXI, 245=Sanhat.
- Suni, *Simla* (53 E/4; 31° 14' 30": 77° 7'), hot spring. H. B. H., **M**, III, pt. 2, 48; T. O., **M**, XIX, 118.
- Sunial, *Rawalpindi* (43 G/7; 33° 29' 30": 73° 16'), U. Siwalik fossils. D. N. W., **M**, LI, 286, 362.
- Sunkerry, *Sunkegherry Droog, Salem* (58 E/15; 11° 28' 30": 77° 52'), granite. H. F. B., **M**, I, 228 (fig.); crystalline limestone. W. K., **M**, IV, 369=Sankari-drug.
- Sunnee, *Kalat* (34 O/12; 29° 9' 30": 67° 34'), sulphur mine. C. L. G., **M**, XVIII, 58=Sanni.
- Sunrgi, *Singhbhum* (73 J/11; 22° 27'; 86° 33'), apatite-rock, composition. L. L. F., **R**, LIII, 296.
- Supa, *N. Kanara* (48 I/11; 15° 16'; 74° 31'), Dharwar rocks. L. L. F., **M**, XXXVII, 649; manganese-ore. E. H. P., **R**, LX, 47; hematite. LXII, 59.
- Supkong, *Lakhimpur* (83 M/11; 27° 2'; 95° 44'), oil seepages. F. R. M., **M**, XII, 357; E. H. P., **M**, XL, 309.
- Supri (Tsapri), *Peshawar* (38 O/13; 33° 49'; 71° 51'), Murree beds (?). C. L. G., **R**, XXV, 96.

- Supudla, *Kolhapur* (47 P/8; 16° 2' : 75° 18'), Intertrappean beds, section. R. B. F., **M**, XII, 196.
- Supuhee (Sarpatahi), *Gorakhpur* (63 N/13; 26° 58' : 83° 56'), meteorite. J. C. B., **M**, XLIII, 271.
- Supul, *Bhagalpur* (72 J/12; 26° 6' : 86° 36'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 109, 326.
- Supur, *Bankura* (73 I/16; 23° 1' : 86° 52'), ilmenite. L. L. F., **R**, LIII, 297.
- Sur, *Oman* (26 N/10; 22° 34' : 59° 30'), Hatat series, Archæan. G. E. P., **M**, XXXIV, pt. 4, 9; granite, 13; freshwater beds, 54.
- Sur R., *Nagpur* (55 O/7; 21° 20' : 79° 25'), spessartite-rock. L. L. F., **M**, XXXVII, 932.
- Sur Kach, *Zhob* (39 E/3; 31° 21' : 69° 11'), Miocene beds. F. N., **A. R.**, 1899, 62.
- Suradhoo, *Hazaribagh* (73 A/13; 23° 52' : 84° 58' 30'), Raniganj-Barakar boundary. A. J., **M**, LII, 44.
- Surajpura, *Bijawar* (54 P/7; 24° 22' 30" : 79° 16'), Bijawar lava. E. V., **M**, XXXI, 76; T. H. H., **R**, XXX, 37.
- Surajpura, *Idar* (46 E/2; 23° 36' 30" : 73° 5' 30"), Delhi quartzite. C. S. M., **M**, XLIV, 89.
- Suran, *Punch* (43 K/6; 33° 37' 30" : 74° 16'), iron-smelting. D. N. W., **M**, LI, 312.
- Surangposi, *Saraikeela* (73 F/14; 22° 39' : 85° 59'), asbestos. L. L. F., **R**, LIII, 252.
- Surarim, *Khasi Hills* (78 O/11; 25° 21' : 91° 45'), coal seam. T. O., **M**, I, 143; overlap of nummulitic limestone. H. B. M., **M**, VII, 163; earthquake, 1897, aftershocks. R. D. O., **M**, XXX, 49.
- Surat, *Bombay* (46 C/16; 21° 12' : 72° 50'), geology of district. A. B. W., **R**, I, 27; water-supply. W. T. B., **R**, VIII, 53; Cutch earthquake, 1819. R. D. O., **M**, XLVI, 114; aftershocks, 116, 117.
- Suratgarh, *Alwar* (54 A/3; 27° 17' : 76° 15'), hornstone breccia. A. M. H., **M**, XLV, 69.
- Surdag, *Kohat* (38 H/16; 33° 6' 30" : 70° 56'), Nummulitic series, section. A. B. W., **M**, XI, 258 (Pl. viii, fig. 40); rock-salt, 323.
- Sureyha, *Rewah* (63 H/12; 24° 4' : 81° 40'), Gondwana boundary. R. D. O., **M**, XXXI, 124.
- Surg, *Attock* (43 C/6; 33° 42' : 72° 16'), carbonaceous shale. E. H. P., **R**, LXI, 28.
- Suri, *Birbhum* (73 M/9; 23° 54' : 87° 32'), earthquakes: Kangra, 1905. C. S. M., **M**, XXXVIII, 257; Calcutta, 1906. **R**, XXXVI, 228=Soory.
- Suriali, *Attock* (43 C/4; 33° 5' : 72° 5'), 'erratics'. W. T., **R**, X, 143.
- Suriur, *Trichinopoly* (58 J/14; 10° 39' : 78° 47' 30"), granite-gneiss. R. B. F., **R**, XII, 146.
- Suriwasan, *Chota Udaipur* (46 J/4; 22° 3' : 74° 1'), contact of trap and Cretaceous beds. W. T. B., **M**, VI, 325 (fig.).
- Surjapur, *Raichur* (56 D/12; 16° 8' : 76° 35'), salt manufacture. R. B. F., **M**, XII, 268.
- Surkh-ab (E.), *Afghanistan* (38 F/15; 34° 22' : 69° 56'), metamorphic rocks. C. L. G., **R**, XXV, 75; H. H. H., **M**, XXXIX, 20; Siwalik beds, section, 42 (fig.).
- Surkh-ab (W.), *Afghanistan* (38 A/3; 35° 20' : 68° 8'), Saighan series. H. H. H., **M**, XXXIX, 30; Doab series, 63.

- Surkhpul, *Afghanistan* (38 F/15; 34° 20' : 69° 54' 30"), metamorphosed limestone. H. H. H., **M**, XXXIX, 13.
- Suroobera (Sarubera), *Hazaribagh* (73 E/9; 23° 46' : 85° 33'), coal seams. T. W. H. H., **M**, VI, 92; Ironstone shales, 98.
- Suroperam (Surikapuram), *Chittoor* (57 O/11; 13° 17' 30" : 79° 43'), gneiss-Gondwana contact. R. B. F., **M**, X, 77.
- Surpur, *Idar* (46 E/2; 23° 43' : 73° 3'), Delhi quartzite. C. S. M., **M**, XLIV, 85.
- Surpura, *Bikaner* (45 E/6; 27° 41' : 73° 27'), white clay, Eocene. T. D. L., **R**, XXX, 124.
- Surr Talao, *Cutch* (41 E/16; 23° 8' : 69° 52'), Jurassic beds, sections. A. B. W., **M**, IX, 177 (fig.).
- Surramulla, *Pudukkottai* (58 J/11; 10° 20' 30" : 78° 44'), granite tor. R. B. F., **R**, XII, 146.
- Surruwaillu (Sirivole), *Warangal* (65 C/3; 17° 24' 30" : 80° 0'), porphyritic diorite. R. B. F., **R**, XVIII, 30.
- Sursho hill, *Rajpipla* (46 G/1; 21° 45' 30" : 73° 14' 30"), unconformity, Nummulitic beds Deccan trap. W. T. B., **M**, VI, 224, 356.
- Sursulla R., *Simla* (53 B/13; 30° 50' : 76° 47'), Subathu beds. H. B. M., **M**, III, pt. 2, 84.
- Surtung, *Kohat* (38 O/4; 33° 14' 30" : 71° 2' 30"), Nummulitic beds, sections. A. B. W., **M**, XI, 214, 216 (Pl. iv, figs. 19, 21); salt quarries, 318.
- Surtur, *Dharwar* (48 M/12; 15° 14' 30" : 75° 36' 30"), trap flow. R. B. F., **R**, XXI, 50=Soortoor and Sortur.
- Suru, *Ladakh* (43 N/16; 34° 7' : 75° 58'), syenitic gneiss, composition. F. S., **M**, V, 347; semi-metamorphic rocks. R. L., **R**, XIV, 19.
- Suru pass, *Singhbhum* (73 F/10; 22° 33' : 85° 40'), chromite. T. H. H., **R**, XXXVIII, 34.
- Surwa (Saruapani), *Santal Parganas* (72 P/7; 24° 27' : 87° 28'), fire-clay. M. S. R., XXXVIII, 142.
- Susa (Kurmed), *Bhutan* (78 M/8; 27° 10' : 91° 27'), earthquake, 1897, landslips. R. D. O., **M**, XXIX, 335.
- Susinia, *Bankura* (73 I/15; 23° 24' : 86° 59'), warm spring. T. O., **M**, XIX, 140 =Sasunia.
- Susnai, *Mirzapur* (63 P/3; 24° 28' : 83° 11'), Kaimur breccia. R. D. O., **M**, XXXI, 26; L. L. F., **R**, LXV, 144.
- Susul Gali, *Hazara* (43 F/3; 34° 26' : 73° 5'), inclusions of schist in gneiss. A. B. W., **R**, XII, 118.
- Susumpani, *Santal Parganas* (72 P/8; 24° 9' : 87° 17'), hot spring. L. L. F., **R**, LIII, 291.
- Sutario, *Bundi* (45 O/14; 25° 34' 30" : 75° 59'), Sirbu shales. A. L. C., **R**, LX, 180.
- Sutna, *Sohawal* (63 D/14; 24° 34' : 80° 50'), earthquake, 1897, aftershock. R. D. O., **M**, XXIX, 125=Satna.
- Sutnga, *Jaintia Hills* (83 C/7; 25° 22' : 92° 26'), coal seam. E. H. P., **R**, LVIII, 24; kaolin, 28=Satunga.
- Sattoruh, *Hazara* (43 G/1; 33° 57' : 73° 15'), Jura-Eocene inlier. C. S. M., **M**, XXVI, 199.
- Suwin, *Pakokku* (84 K/10; 21° 41' : 94° 40'), oil seepage. E. H. P., **M**, XI, 139.



- Swa, *Toungoo* (94 A/7; 19° 15' 30": 96° 17' 30"), earthquake, August, 1929. J. C. B., **R**, LXV, 266.
- Swai Kot, *Khyber* (38 O/5; 33° 50': 71° 18' 30"), Triassic beds. H. H. H., **M**, XXVIII, 107.
- Swamahalli, *Sandur* (57 B/9; 14° 58': 76° 37'), manganese-ore. L. L. F., **M**, XXXVII, 994, 1001.
- Swarnamukhi R., *Chittoor* (57 O/6; 13° 36': 79° 27'), red granitoid gneiss. W. K., **M**, XVI, 128.
- Swas (Sanwans), *Mianwali* (38 P/10; 32° 44': 71° 38'), Carboniferous-Jurassic, sections. A. B. W., **M**, XIV, 258 (Pl. xxviii); position of Red Marl. C. S. M., **R**, XXIV, 35 (Pl. iv, fig. 11).
- Syair, *Garhwal* (53 J/8; 30° 2': 78° 20'), Eocene, junction with Mandhali beds. R. D. O., **R**, XVII, 162.
- Sydpoor, *Rawalpindi* (43 G/2; 33° 44' 30": 73° 4'), Jurassic beds. C. S. M., **M**, XXVI, 214; traces of oil, 287=Saidpur.
- Sydrapet (Sedarappattu), *Pondicherry* (58 M/13; 11° 59': 79° 45'), Ariyalur bds. H. F. B., **M**, IV, 158=Saidarampet.
- Sylhet, *Assam* (78 P/13; 24° 54': 91° 52'), earthquakes: Cachar, 1869. T. O., **M**, XIX, 16; Assam, 1897. T. D. L., **M**, XXIX, 274 (figs.); Srimangal, 1918. M. S., **M**, XLVI, 21; rainfall. E. H. P., **M**, XL, 274.
- Syntpa (Sendpa), *Bijawar* (54 P/6; 24° 32' 30": 79° 15'), Bijawar-granite boundary. H. B. M., **M**, II, 48.
- Syri, *Simla* (53 E/4; 31° 5': 77° 3'), Blaini beds. C. A. M., **R**, X, 206=Sairi.
- Syriam, *Hanthawaddy* (94 D/5; 16° 46': 96° 15'), laterite. W. T., **M**, X, 244; Burma earthquake, 1912. J. C. B., **M**, XLII, 72.
- Ta-ap R., *Singpho Hills* (92 B/1; 26° 57': 96° 14'), serpentine. M. S., **R**, LIV, 402.
- Tabingyaung, *Pakokku* (84 L/9; 20° 59': 94° 41'), U. Siwalik fossils. H. H. H., **R**, XLI, 74.
- Table Mt., *Iraq* (2 F/4; 34° 2': 45° 0' 30"), anticline, Kurd series. E. H. P., **M**, XLVIII, 64 (Pl. x).
- Tabyi Hka, *Hukawng* (92 B/14; 26° 32': 96° 56'), alluvial gold. L. L. F., **R**, LXV, 48.
- Ta-chai, *Yunnan* (93 M/6; 23° 43' 30": 99° 24'), iron mine. J. C. B., **M**, XLVII, 95.
- Ta-chiao, *Yunnan* (92 P/10; 24° 43': 99° 41'), Carboniferous limestone. J. C. B., **R**, XLVII, 265.
- Ta-ching, *Yunnan* (92 O/5; 25° 53': 99° 22' 30"), brine well. J. C. B., **M**, XLVII, 171.
- Tada, *Nellore* (66 C/2; 13° 35': 80° 2'), sub-recent shells. W. K., **M**, XVI, 181.
- Tada-U, *Sagaing* (84 O/13; 21° 49': 95° 59'), Pegu inlier. E. H. P., **R**, LX, 84.
- Taduru, *Vizagapatam* (65 N/3; 18° 25' 30": 83° 9' 30"), manganese-pyroxenes. L. L. F., **M**, XXXVII, 137, 252; rhodonite, 141, 144; manganese-garnet, 180; graphite, 211; pyrrhotite, 212; khondalite, 245-249, 1110 (Pl. lv).
- Tafui hill, *Chagai* (34 G/16; 29° 14': 65° 53'), Tertiary shales and limestone. E. V., **M**, XXXI, 224 (Pl. ix, fig. 16).
- Tagadur (Thogaduru), *Mysore* (57 D/16; 12° 5' 30": 76° 48' 30"), mica. T. H. H., **M**, XXXIV, 68.

- Tagaing, *Thayetmyo* (85 I/13; 19° 56': 94° 56'), Pegu anticline. H. H. H., **R**, XLII, 78.
- Tagalang La, *Ladakh* (52 G/14; 33° 30': 77° 47'), Carbo-Triassic syncline. R. L., **R**, XIII, 50.
- Tagalet, *Shwebo* (84 N/16; 22° 15': 95° 49'), salt works. E. H. P., **R**, LXII, 62.
- Tagapur R., *Andamans* (86 D/13; 12° 51': 92° 51'), *Lithothamnion* limestone. E. R. G., **R**, LIX, 216 (Pl. xv).
- Tagaung, *Katha* (93 A/2; 23° 30' 30": 96° 1'), earthquakes: Assam, 1897, sounds. R. D. O., **M**, XXIX, 194; Burma, 1912, rise of river. J. C. B., **M**, XLII, 47.
- Taggadurbetta (Nuggihallibetta), *Hassan* (57 C/8; 13° 1' 30": 76° 29'), Dharwar outlier. R. B. F., **R**, XXII, 19.
- Tagharmansu, *Kashgar* (42 K/15; 37° 16': 74° 52'), Sarikol shales. H. H. H., **R**, XLV, 300.
- Tagit (Thagyet) *Mergui* (95 P/4; 12° 6': 99° 6'), carbonaceous shale. R. R. S., **M**, XLI, 62=Thaket.
- Tagling R., *Spiti* (52 H/15; 32° 26': 77° 57'), Rhætic limestone. F. S., **M**, V, 62.
- Tagu, *Mergui* (95 P/3; 12° 15': 99° 3'), tin- and wolfram-ores. T. W. H. H., **R**, XXVI, 51; T. H. H., **R**, XXXVII, 41; J. C. B., **R**, L, 118; arsenopyrite. **M**, XLIV, 222; L. L. F., **R**, LIV, 51.
- Ta-hai, *Yunnan* (102 A/10; 23° 31': 100° 38'), Permo-Triassic beds. J. C. B., **R**, LIV, 309.
- Tahedo, *Salween* (94 F/3; 18° 16': 97° 9'), biotite-gneiss and granite. E. L. C., **R**, LX, 297.
- Tahi, *Punch* (43 G/14; 33° 37' 30": 73° 57'), hot spring, sulphurous. D. N. W., **M**, LI, 207; L. Murree fossils, 269.
- Tahood, *Sambalpur* (64 O/14; 21° 36': 83° 58' 30"), alluvial gold. V. B., **R**, X, 191.
- Taibut, *Afghanistan* (33 N/13; 34° 50': 67° 49'), *Fusulina* limestone. H. H. H., **R**, XXXVIII, 246; **M**, XXXIX, 54.
- Taimurdoh (Temardoh), *Nagpur* (55 K/14; 21° 30' 30": 78° 57'), crystalline limestone. P. N. D., **R**, XXXIII, 222.
- Tain, *Punch* (43 G/9; 33° 54': 73° 37'), Murree-Siwalik boundary. D. N. W., **M**, LI, 332.
- Tainandamullay, *Salcm* (58 I/5; 11° 52': 78° 28'), physical features. W. K., **M**, IV, 236.
- T'ai-p'ing-p'u, *Yunnan* (92 O/14; 25° 36' 30": 99° 52'), Red beds, Permian. J. C. B., **R**, XLVII, 239.
- Tai-p'ing-tzu, *Yunnan* (92 L/13; 24° 45': 98° 57'), Carboniferous limestone. J. C. B., **R**, XLVII, 254.
- Tajut hill, *Kohat* (38 O/2; 33° 31': 71° 9'), manganese-ore. L. L. F., **M**, XXXVII, 1155.
- Takalwin Taung, *Amherst* (95 E/10; 15° 45': 97° 42' 30"), biotite-granite. E. H. P., **R**, LXI, 102.
- Takatu, *Quetta-Pishin* (34 N/3; 30° 23': 67° 7'), geological structure. C. L. G., **M**, XVIII, 29 (fig.); reservoir site. T. H. H., **R**, XXXIII, 91; Liassic fossils. XXXVIII, 27; E. V., **A. R.**, 1903, 17; Nari series, mollusca. **M**, L, 13, 27, 144, etc.

- Takht-i-Marwan, *Afghanistan* (38 E/8 ; 35° 10' : 69° 17'), Hajigak series. H. H. H., **M**, XXXIX, 47.
- Takht-i-Suleiman, *D. I. Khan* (39 E/14 ; 31° 38' : 69° 56'), geological structure. C. L. G., **R**, XVII, 175 (figs. & Pls. xii-xiv).
- Takht-i-Suleiman, *Kashmir* (43 J/16 ; 34° 5' : 74° 50'), Panjal traps and slates. R. L., **R**, XI, 40.
- Takia, *Persia* (24 C/6 ; 29° 44' : 56° 18' 30'), travertine. G. E. P., **M**, XLVIII, pt. 2, 113.
- Takli, *Nagpur* (55 O/4 ; 21° 11' 30" : 79° 4'), Intertrappean fossils. W. T. B., **M**, IX, 319 ; Dinosaurian tooth. R. L., **R**, XXIII, 21 (fig.).
- Tak-ra-chen, *Bashahr* (53 I/9 ; 31° 55' : 73° 31'), Carboniferous beds, section. H. H. H., **M**, XXXVI, 37.
- Takua, *Talcher* (73 G/4 ; 21° 7' : 85° 2'), Talchir conglomerate. W. T. B., **M**, I, 48.
- Takub, *Singbhum* (73 F/1 ; 22° 46' : 85° 14'), granite veins. J. A. D., **M**, LIV, 129.
- Tal, *Rewah* (63 H/16 ; 24° 11' : 81° 58'), Gondwana-gneiss contact. R. D. O., **M**, XXXI, 135 (figs.).
- Tal R., *Garhwal* (53 K/5 ; 29° 58' : 78° 22'), Mesozoic limestone, fossiliferous. H. B. M., **M**, III, pt. 2, 69 ; R. D. O., **R**, XVII, 161.
- Tala, *Afghanistan* (38 A/3 ; 35° 24' : 68° 14' 30'), Saighan series. H. H. H., **M**, XXXIX, 30, 64 (Pl. xv).
- Talai, *Jhabua* (46 I/8 ; 23° 1' : 74° 24'), manganese-ore. L. L. F., **M**, XXXVII, 679.
- Talaingya, *Tavoy* (95 J/3 ; 14° 17' 30" : 98° 13'), wolfram mines. J. C. B., **M**, XLIV, 278.
- Talaingywa, *Sagaing* (84 N/16 ; 22° 11' : 95° 58'), outlier of gneiss. E. H. P., **R**, LXII, 121.
- Talakwa, *Bassein* (85 L/9 ; 16° 49' : 94° 37'), water-supply. E. H. P., **R**, LXIII, 58.
- Talang, *Myitkyina* (92 G/5 ; 25° 49' : 97° 26' 30"), lignite. C. L. G., **R**, XXV, 129 ; R. R. S., **M**, XLI, 75.
- T'a-lang T'ing, *Yunnan* (102 E/11 ; 23° 25' 30" : 101° 40' 30"), gold mine. J. C. B., **M**, XLVII, 148.
- Talao, *Idar* (45 H/4 ; 24° 6' : 73° 8'), aplite veins in quartzite. C. S. M., **M**, XLIV, 79.
- Talapoody, *Godavari* (65 G/12 ; 17° 13' : 81° 40'), Tripati sandstones, overlap of Raghavapuram shales. W. K., **R**, X, 57.
- Talar gorge, *Makran* (31 K/10 ; 25° 36' : 62° 42'), Makran series, mollusca. E. V., **M**, L, 6, 17, 18, etc.
- Talbrich, Talbrik (Tal Birach), *Alwar* (54 A/6 ; 27° 30' 30" : 76° 23'), Kushalgarh limestone. C. A. H., **R**, X, 88 ; hot spring. T. O., **M**, XIX, 132.
- Talbust, *Puri* (73 H/11 ; 20° 20' : 85° 35'), metamorphic rocks. V. B., **R**, X, 66.
- Talcheer, Talchir, *Eastern States* (73 H/1 ; 20° 57' : 85° 14'), iron industry. T. O., **M**, I, 1 ; coalfield. W. T. B., **M**, I, 33 (figs. & Pls. i-iii) ; **R**, V, 63 ; R. R. S., **M**, XLI, 37 ; L. L. F., **R**, LIV, 18.
- Talchiri, *Jaipur* (54 F/1 ; 26° 54' 30" : 77° 1' 30"), Aravalli quartzites. A. M. H., **R**, XLVIII, 185.

- Taldanga, *Manbhum* (73 I/14; 23° 44' 30" : 86° 48'), Talchir beds, section. W. T. B., **M**, III, 33 (fig.); Barakar beds, 61.
- Taldi, *Sambalpur* (64 O/14; 21° 35' : 83° 53'), outlier of Talchirs. V. B., **R**, VIII, 104; **X**, 172.
- Talegaon, *Poona* (47 F/10; 18° 43' : 73° 41'), glass works. L. L. F., **R**, XLVI, 274.
- Talevadi, Talewari, *Belgaum* (48 I/6; 15° 33' : 74° 20'), cavern in laterite. R. B. F., **M**, XII, 220; gibbsite. L. L. F., **R**, XXXIV, 167 (Pl. xxiii); **M**, XXXVII, 217; laterite, 383 (fig.); manganese-ore, 635; E. H. P., **R**, LXI, 64.
- Talhatta, *Hazara* (43 F/7; 34° 27' : 73° 22'), Tanawal series, section. D. N. W., **R**, LXV, 205.
- Talhetar, *Rawalpindi* (43 G/6; 33° 38' 30" : 73° 21' 30"), Murree escarpment. D. N. W., **M**, LI, 339; Soan fold-axis, 346 (Pl. ix, fig. 2).
- Ta-li Fu, *Yunnan* (101 C/2; 25° 42' : 100° 10'), marble. J. C. B., **M**, XLVII, 181.
- Talichog, *Simla* (53 F/5; 30° 50' : 77° 24'), granite, petrology. C. A. M., **R**, XVII, 64.
- Talikot, *Bijapur* (56 D/7; 16° 28' : 76° 18' 30"), U. Bhima limestone. R. B. F., **M**, XII, 149.
- Talishan, *Iraq* (2 B/14; 34° 36' : 44° 57'), anticline, Kurd series. E. H. P., **M**, XLVIII, 62 (Pl. ix).
- Ta-li-shao, *Yunnan* (92 O/8; 25° 14' : 99° 19'), carboniferous fossils. J. C. B., **R**, XLVII, 237.
- Tallicalli (Talikkal), *N. Arcot* (57 P/9; 12° 48' : 79° 38'), U. Gondwana sandstone. R. B. F., **R**, XII, 202.
- Tallur, *Bellary* (57 A/12; 15° 10' : 76° 37'), crystalline limestone. R. B. F., **M**, XXV, 130, 205.
- Talobusa, *Mergui* (96 J/11; 10° 22' : 98° 33'), acid and basic gneisses. E. H. P., **R**, LIX, 73.
- Talok, *Thayetmyo* (85 M/7; 19° 26' : 95° 22'), vertebrate fossils, Irrawadian. W. T., **M**, X, 254.
- Talowra, *Hoshiarpur* (53 A/7; 31° 23' 30" : 76° 24'), *Elephas djitii*. W. T., **R**, VII, 143.
- Talpuchia, *Sambalpur* (73 C/1; 21° 56' : 84° 1'), lead-ore. V. B., **R**, X, 192; L. L. F., **R**, LIII, 284.
- Tatra (Thatra), *Alwar* (54 A/12; 27° 12' : 76° 43' 30"), Alwar quartzite, junction with gneiss. C. A. H., **R**, XIV, 296=Tatra.
- Talsara, *Gangpur* (73 B/3; 22° 22' : 84° 6'), granite. L. L. F., **R**, LXV, 73.
- Taltoro, *Burdwan* (73 M/2; 23° 44' 30" : 87° 5'), coal seam. R. R. S., **M**, XLI, 46.
- Ta-lu, *Yunnan* (101 B/14; 26° 38' : 100° 52'), basal conglomerate, Permian. J. C. B., **R**, LIV, 327.
- Talung (Taklung), *Tibet* (78 A/14; 27° 40' : 88° 58'), Khongbu series. H. H. H., **M**, XXXVI, 141.
- Talwara, *Banswara* (45 I/6; 23° 34' : 74° 19' 30"), limestone quarries. H. B. M., **R**, I, 71.
- Talwara, *Hoshiarpur* (44 M/13; 31° 56' : 75° 53'), railway alignment. E. H. P., **R**, LIX, 34.
- Talwas, *Bundi* (54 C/2; 25° 37' : 76° 2' 30"), Samria shales. A. L. C., **R**, LX, 176.
- Tam, *E. Turkestan* (51 L/5; 36° 52' : 78° 26'), sedimentary rocks. F. S., **R**, VII, 49.

- Tamagan, Shwebo** (84° N/16; 22° 15': 95° 58'), outlier of gneiss. E. H. P., **R**, LXII, 121.
- Tamagon, Prome** (85° N/1; 18° 47': 95° 11'), marine beds at base of Irrawadian series. M. S., **R**, XXXVIII, 266.
- Tamagyaw, Thayetmyo** (85° M/2; 19° 38': 95° 3'), Pegu anticline. H. H. H., **R**, XLVII, 32.
- Tamair, Rawalpindi** (43° G/6; 33° 41': 73° 17'), U. Murree inlier. D. N. W., **M**, LI, 348.
- Tamba Khonch (Kulikhani), Nepal** (72° E/2; 27° 35': 85° 9'), quartzites. H. B. M., **R**, VIII, 96.
- Tambauli, Ranchi** (73° F/9; 22° 52': 85° 34'), quartz-biotite-schist. J. A. D., **M**, LIV, 50.
- Tambesera (Tanbosra), Kushalgarh** (46° I/7; 23° 15' 30": 74° 21'), conglomerate. Delhi series. H. B. M., **R**, I, 71.
- Tambichiwadi, Kolhapur** (47° H/16; 16° 6': 73° 54'), gypsum. H. C. J., **R**, LIV, 427.
- Tambraparni R., Tinnevelly** (58° H/14; 8° 40': 77° 50'), advance of delta. R. B. F., **M**, XX, 80.
- Tambulpur, Kamrup** (78° N/10; 26° 37': 91° 35'), earthquake, 1897, fissures. R. D. O., **M**, XXIX, 334.
- Tamia, Ohhindwara** (55° J/11; 22° 20': 78° 40'), Jabalpur sandstones. E. H. P., **R**, LIX, 86.
- Tamkhan, Indore** (55° B/15; 22° 27' 30": 76° 50'), copper-ore. P. N. B., **M**, XXI, 69; T. H. H., **R**, XXXVII, 49.
- Tammampatti, Salem** (58° I/7; 11° 26' 30": 78° 29'), iron-smelting. T. H. H., **R**, XXV, 149=Tummumpetty.
- Tammaw, Myitkyina** (92° C/6; 25° 41': 96° 15' 30"), jadeite mines. F. N., **R**, XXV, 134; M. B., **R**, XXVIII, 91=Tawmaw.
- Tamnee, Balaghat** (55° O/14; 21° 34': 79° 57' 30"), hornblende-augite-norite, charnockite series. K. H., **R**, LV, 256 (Pl. xxxiii).
- Tamor hill, Surguja** (64° I/14; 23° 33': 82° 58'), Mahadeva escarpment. C. L. G., **M**, XV, 148 (fig. & Pl. vi, fig. 1).
- Ta-mung-t'ung, Yunnan** (92° P/10; 24° 31': 99° 39'), dolomitic limestone. J. C. B., **R**, XLVII, 227; Kao-liang beds, 263.
- Tana, Mewar** (45° L/2; 24° 42': 74° 12'), syncline in Aravallis. E. H. P.; **R**, LXIII, 144.
- Tanakki, Hazara** (43° F/4; 34° 6': 73° 11' 30"), basal conglomerate, Infra-Trias. C. S. M., **M**, XXVI, 100; glacial boulder bed. D. N. W., **R**, LXV, 207.
- Tanaunggin, Magwe** (84° P/12; 20° 6' 30": 95° 36'), dam-site. E. H. P., **R**, LXI, 84.
- Tanda, Amjhera** (46° J/14; 22° 30': 74° 51' 30"), pre-trappean erosion of Cretaceous beds. W. T. B., **M**, VI, 212, 300 (fig.).
- Tanda China, Waziristan** (38° H/14; 32° 38': 69° 50'), Janjal plant beds. M. S., **R**, LIV, 96.
- Tandagoundenpolliam (Tandakkavundanpudur), Salem** (58° I/6; 11° 33': 78° 22'), pot-stone. W. K., **M**, IV, 324.

- Tandalail R., *Sirmur* (53 F/1; 31° 0' : 77° 8'), Blaini (Jaunsar) conglomerate. C. A. M., **R**, X, 205; G. E. P., **M**, LIII, 15.
- Tandaw, *Pakokku* (84 K/5; 21° 47' : 94° 25'), oil seepage. E. H. P., **R**, LV, 24.
- Tandi, *Kangra* (52 D/14; 32° 33' 30" : 76° 58' 30"), Pangi slates. R. L., **R**, XI, 55; Carboniferous limestone. XIV, 39; **M**, XXII, 247.
- Tandiani, *Hazara* (43 F/8; 34° 14' : 73° 21'), Triassic-Jurassic beds, sections. C. S. M., **M**, XXVI, 144 (figs.).
- Tandra Rahim Khan, *Larkhana* (35 N/7; 26° 30' : 67° 25'), Gaj-Nari unconformity. W. T. B., **R**, IX, 16; XI, 162; **M**, XVII, 56; warm spring. T. O., **M**, XIX, 113.
- Tandri, *N. Arcot* (57 P/4; 12° 7' : 79° 9'), granitoid gneiss. W. K., **M**, IV, 298.
- Tandur, *Adilabad* (56 M/8; 19° 9' : 79° 27'), coalfield. R. R. S., **M**, XLI, 100.
- Tandwa, *Hazaribagh* (73 E/1; 23° 51' : 85° 2'), Raniganj plants. O. F., **R**, XIV, 248=Tendwa and Tundwa.
- Tang Bouhareh, *Persia* (25 A/10; 27° 33' : 56° 44'), hippuritic limestone. G. E. P., **M**, XLVIII, pt. 2, 61; Ginau shales, Eocene, 76; Oligocene beds, 79, 101.
- Tang Khah, *Persia* (18 M/15; 27° 22' : 55° 56'), Hormuz series. G. E. P., **M**, XLVIII, pt. 2, 48; Cretaceous fossils, 61; Ginau series, Eocene, 74; Oligocene beds, 78; Fars series, 97.
- Tang La, *Tibet* (78 E/1; 27° 50' : 89° 12'), fault. H. H. H., **M**, XXXVI, 141, 148.
- Tang Nashelil, *Persia* (10 E/14; 31° 44' : 49° 53'), hippuritic limestone. G. E. P., **M**, XXXIV, pt. 4, 81, 86.
- Tang Samana, *Persia* (25 A/14; 27° 32' : 56° 59'), Eocene sandstone and limestone. G. E. P., **M**, XLVIII, pt. 2, 105.
- Tang Saubat, *Persia* (18 M/11; 27° 16' : 55° 33'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 97.
- Tanga (Tinga), *Bashahr* (53 I/9; 31° 55' : 78° 31'), Carboniferous beds, section. H. H. H., **M**, XXXVI, 37 (Pl. ii).
- Tanga Chenmo, *Spiti* (52 H/16; 32° 14' : 77° 50'), Carboniferous limestone, alteration to gypsum. H. H. H., **M**, XXXVI, 41; Muschelkalk, 71; A. K., **A**, **R**., 1900, 206.
- Tangamarg (Tsandarmarg), *Kashmir* (43 O/5; 33° 45' : 75° 22'), Syringothyris limestone. C. S. M., **R**, XL, 220.
- Tangar, *Kashmir* (43 F/7; 34° 24' : 73° 26'), Himalayan syntaxis. C. S. M., **M**, XXVI, 129, 130.
- Tangellamudi, *Guntur* (65 D/11; 16° 17' : 80° 35'), U. Gondwana sandstone. R. B. F., **M**, XVI, 78, 107.
- Tangerkela, *Ranchi* (73 F/1; 22° 49' : 85° 4'), mica-schist hybrid. L. A. N., **R**, LXV, 506 (Pl. xxviii, fig. 2); analysis, 509.
- Tangi, *Afghanistan* (38 G/5; 33° 58' : 69° 21'), coal seams. C. L. G., **R**, XXV, 79; R. R. S., **M**, XLI, 12.
- Tangi Gharu, *Afghanistan* (38 F/10; 34° 33' 30" : 69° 33'), Megalodon limestone. C. L. G., **R**, XXV, 70; H. H. H., **M**, XXXIX, 44.
- Tangi Muyak, *Afghanistan* (33 M/15; 35° 18' : 67° 55'), gorge in Cretaceous limestone. H. H. H., **M**, XXXIX, 65.
- Tangi Rojan, *Afghanistan* (38 F/7; 34° 19' : 69° 27'), limestone, ? Cretaceous. C. L. G., **R**, XXV, 75.

- Tangi Tarakki, *Afghanistan* (38 F/7; 34° 23' : 69° 26'), Tertiary beds. H. H. H., **M**, XXXIX, 45.
- Tang-i-Chakabak, *Persia* (18 M/16; 27° 8' : 55° 59'), anticline in Fars series. G. E. P., **M**, XLVIII, pt. 2, 95.
- Tang-i-Chaku (Chikan), *Persia* (10 O/9; 29° 48' : 51° 37'), nummulitic limestone and Fars beds. G. E. P., **M**, XXXIV, pt. 4, 69.
- Tang-i-Lambi, *Persia* (17 P/16; 28° 1' : 55° 55'), Fars series. G. E. P., **M**, XLVIII, pt. 2, 110.
- Tang-i-Turku, *Persia* (10 O/6; 29° 40' : 51° 30'), Bakhtiyari conglomerate. G. E. P., **M**, XXXIV, pt. 4, 66.
- Tang-i-Zagh, *Persia* (25 A/1; 27° 57' : 56° 2'), Hormuz series. G. E. P., **M**, XLVIII, pt. 2, 50; unconformity, 110 (fig.); Pleistocene gravels, 112.
- Tang-i-Zindan, *Persia* (25 A/14; 27° 41' : 56° 54'), Eocene sandstone. G. E. P., **M**, XLVIII, pt. 2, 76, 102.
- Tang-pa-shao, *Yunnan* (101 K/6; 25° 35' : 102° 22' 30'), Permian limestone. J. C. B., **R**, XLIV, 105.
- Tangsuli, *Birbhum* (73 M/5; 23° 59' : 87° 29'), Barakar beds. V. B., **M**, XIII, 180.
- T'ang-t'ang, *Yunnan* (110 B/3; 26° 29' : 104° 10'), copper mines. J. C. B., **M**, XLVII, 122.
- Tangu, *Pakokku* (84 O/2; 21° 41' 30" : 95° 2'), freestone quarry. E. H. P., **R**, LX, 26.
- Tangu, *Sikkim* (78 A/9; 27° 53' : 88° 31' 30"), marble. H. H. H., **R**, XXXII, 161.
- Tanishpa, *Zhob* (39 A/8; 31° 11' : 68° 26'), Miocene beds. F. N., **A. R.**, 1899, 61.
- Tanjara, *Korea* (64 I/11; 23° 29' : 82° 36'), coal seam. T. W. H. H., **M**, XXI, 245.
- Tanjore, *Madras* (58 N/1; 10° 47' : 79° 8'), Cretaceous beds. W. K., **M**, IV, 256 (note); E. V., **R**, XL, 336; lateritic conglomerate. R. B. F., **R**, XII, 152.
- Tank, *D. I. Khan* (38 L/8; 32° 13' : 70° 23'), syntactical point. E. H. P., **M**, XL, 445.
- Tanki, *Rewah* (64 I/4; 23° 7' : 82° 6' 30"), coal seams. T. W. H. H., **M**, XXI, 245.
- Tankri, *Gurgaon* (53 D/8; 28° 5' : 76° 29'), Ajabgarh series. A. M. H., **M**, XLV, 87.
- Tankse, Tanktse, *Ladakh* (52 J/4; 34° 2' : 78° 11'), porphyritic gneiss and Panjal slates. R. L., **R**, XIII, 30; **M**, XXII, 256, 322.
- Tansar, *Rewah* (63 H/16; 24° 3' : 81° 55' 30"), Raniganj plants. O. F., **R**, XIII, 185.
- Tanse, *Chhindwara* (55 J/8; 22° 11' : 78° 20'), coal seam. E. J. J., **M**, XXIV, 41; R. R. S., **M**, XLI, 95.
- Tantipara, *Birbhum* (73 M/5; 23° 54' : 87° 22' 30"), hot springs, sulphurous. T. O., **M**, XIX, 140.
- Tantolya, Tantulia, *Manbhum* (73 I/10; 23° 41' : 86° 44'), hot spring, sulphurous. V. B., **M**, XVIII, 72; T. O., **M**, XIX, 139.
- Tanur, *Malabar* (49 N/13; 10° 59' : 75° 53'), formation of laterite. P. L., **M**, XXIV, 220 (Pl. iii, figs. 6, 7).
- Tanyin, *Amherst* (95 E/14; 15° 44' : 97° 57'), Taungnyo series—Moulmein limestone, contact. E. H. P., **R**, LXIII, 95.
- Ta-pa-ch'in, *Yunnan* (92 K/16; 25° 3' : 98° 57' 30"), Carboniferous limestone and trap. J. C. B., **R**, XLVII, 232.
- Ta-pang-tawng, *N. Shan States* (93 F/5; 22° 56' : 97° 23'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 92.

- Tapassi, *Burdwan* (73 M/2; 23° 40': 87° 8'), coal seam. W. T. B., **M**, III, 82; colliery, method of working, 165=Toposi.
- Tapawdo, *Salween* (94 F/3; 18° 17' 30": 97° 9'), Plateau limestone. E. L. C., **R**, LX, 296, 298.
- Tapda, *Rajpipla* (46 G/6; 21° 31': 73° 28'), chalcedony veins in trap. P. N. B., **R**, XXXVII, 173.
- Ta-p'ing-ch'ang, *Yunnan* (92 P/6; 24° 34': 99° 27'), Carboniferous limestone. J. C. B., **R**, XLVII, 261.
- Ta-p'ing-ti, *Yunnan* (92 P/2; 24° 40': 99° 13'), Ordovician limestone. J. C. B., **R**, XLVII, 258.
- Tapkara, *Ranchi* (73 F/1; 22° 52' 30": 85° 7'), epidotisation of granite. J. A. D., **M**, LIV, 121.
- Tapli (Thapla), *Hazara* (43 B/16; 34° 5': 72° 52'), 'erratic' boulder. W. T., **R**, XIII, 231.
- Tapoban, *Garhwal* (53 N/11; 30° 29': 79° 38'), hot springs. T. O., **M**, XIX, 123.
- Taptapani, *Ganjam* (74 A/7; 19° 29': 84° 23'), hot spring, sulphurous. F. H. S., **A. R.**, 1900, 161.
- Tara Devi, *Simla* (53 E/4; 31° 3': 77° 8'), garnetiferous schists and Krol quartzites. H. B. M., **M**, III, pt. 2, 34; carbonaceous beds, Jutogh series. G. E. P., **M**, LIII, 107.
- Tarai Tangi, *Sibi* (39 B/4; 30° 6': 68° 8'), nummulitic limestone. R. D. O., **R**, XXIII, 93.
- Tarail, *Patiala* (53 E/4; 31° 8': 77° 3'), Jutogh limestone. G. E. P., **M**, LIII, 109.
- Taraki, *Jhelum* (43 G/8; 33° 4': 73° 25' 30"), sandstone quarries. D. N. W., **M**, LI, 281.
- Taranda, *Bashahr* (53 E/14; 31° 33': 77° 54'), hornblende-schists. C. A. M., **R**, X, 218; petrology. XIX, 77=Tranda.
- Tarar, *Punch* (43 G/13; 33° 50': 73° 46' 30"), lacustrine alluvium. D. N. W., **M**, LI, 287.
- Tararanwali, *Punch* (43 K/6; 33° 37' 30": 74° 21'), lavas, Dogra Slate series. D. N. W., **M**, LI, 310.
- Taratra, *Jodhpur* (40 O/6; 25° 34': 71° 15' 30"), granite, junction with Malani. rhyolite. T. D. L., **M**, XXXV, 76.
- Tarcherla, *Karimnagar* (56 N/10; 18° 32' 30": 79° 44' 30"), sandstones, Kamthi series. W. K., **R**, X, 61; T. W. H. H., **R**, XI, 24.
- Tardkesar, *Surat* (46 G/3; 21° 22' 30": 73° 4'), alluminous laterite, analysis. C. S. F., **M**, XLIX, 98=Turkeesaur.
- Targia, *Ranchi* (73 F/1; 22° 50' 30": 85° 12'), quartzite after tuff. J. A. D., **M**, LIV, 28.
- Tarhai, *Simla* (53 E/8; 31° 1': 77° 15' 30"), overlap of Jaunsar beds. G. E. P., **M**, LIII, 88.
- Tari, *Hukawng* (92 F/4; 26° 12': 97° 2'), alluvial gold. L. L. F., **R**, LXV, 50.
- Tari Wang, *Putao* (92 E/9; 27° 51': 97° 42'), fault-breccia. M. S., **R**, L, 249.
- Tarikere, *Kadur* (48 O/14; 13° 43': 75° 49'), inlier of gneiss. R. B. F., **R**, XXI, 48.
- Taripathar, *Rewah* (64 E/5; 23° 51' 30": 81° 16'), Maleri beds, section. T. W. H. H., **R**, XIV, 137.
- Tarka, *Rewah* (63 L/3; 24° 24': 82° 9'), L. Vindhyan breccia. R. D. O., **M**, XXXI, 13, 129.



- Tarkeshwar, *Hooghly* (79 B/1; 22° 53': 88° 1'), Calcutta earthquake, 1906. C. S. M., **R**, XXXVI, 221.
- Tarkhobi, *Kohat* (38 O/14; 33° 35' 30": 71° 50'), folding in Eocene beds. E. H. P., **M**, XL, 412.
- Tarnara, *Persia* (25 A/1; 27° 57': 56° 4' 30"), Bakhtiyari conglomerate. G. E. P., **M**, XLVIII, pt. 2, 109.
- Tarn Taran, *Amritsar* (44 I/15; 31° 27': 74° 55'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 158.
- Tarna, *Sirmur* (53 F/5; 30° 48' 30": 77° 27'), granite-Jutogh boundary. L. L. F., **R**, LXV, 129.
- Tarnot, *Khariar* (64 L/9; 20° 45': 82° 32'), Vindhyan boundary. V. B., **R**, X, 174.
- Tarum, *Persia* (17 P/16; 28° 9' 30': 55° 46'), Hormuz series. G. E. P., **M**, XLVIII, pt. 2, 16.
- Tarur (Toraiyur), *N. Arcot* (57 P/9; 12° 57': 79° 34'), granite vein in gneiss. R. B. F., **R**, XII, 194.
- Taruvai, *Tinnevely* (58 H/15; 8° 20': 77° 56'), origin of lake. R. B. F., **M**, XX, 9, 91; estuarine beds, fossils, 63.
- Tasam, *Tibet* (71 L/8; 28° 9': 86° 27'), mica-schist. A. M. H., **R**, LIV, 221.
- Ta-shan-shao, *Yunnan* (102 B/13; 22° 58': 100° 45' 30"), Triassic fossils. J. C. B., **R**, LIV, 316.
- Tashgam, *Ladakh* (43 N/15; 34° 29': 75° 56'), syenitic gneiss and slates. R. L., **R**, XIII, 28.
- Tashidzom, *Tibet* (71 P/3; 28° 25': 87° 1'), Cretaceous limestone. A. M. H., **R**, LIV, 229.
- Tashkurgan, *Kashgar* (42 O/1; 37° 48': 75° 14'), metamorphic rocks. H. H. H., **R**, XLV, 305.
- Tashkurgan, *Afghan Turkistan* (32 P/10; 36° 42': 67° 42'), Cretaceous-Tertiary beds. C. L. G., **R**, XIX, 254; XX, 19; *Ostrea multicostata*. E. V., **R**, XXXVI, 318.
- Tashmalik, *Kashgar* (42 M/12; 39° 7': 75° 36'), oyster beds, Ferghana series. H. H. H., **R**, XLV, 320.
- Tashvaz, *Kashmir* (43 N/7; 34° 18': 75° 16'), Triassic beds. F. S., **M**, V, 349. =Thajwaz.
- Tasing, *Alwar* (54 A/1; 27° 53': 76° 13'), copper-ore. C. A. H., **R**, X, 91; Mandan (Ajabgarh) beds. A. M. H., **M**, XLV, 75, 87.
- Tasra R., *Manbhūm* (73 I/6; 23° 39': 86° 28'), Barakar beds, section. T. W. H. H., **M**, V, 302.
- Tat Marg (? Chah-i-Mir), *Persia* (25 N/9; 28° 48': 59° 40'), crystalline limestone. G. H. T., **R**, LIII, 55.
- Tatakuti, *Kashmir* (43 K/5; 33° 45': 74° 28'), Panjal trap-Zewan beds, section. C. S. M., **R**, XLI, 124; D. N. W., **M**, LI, 310.
- Ta-t'ang-tzu, *Yunnan* (92 K/15; 25° 18' 30": 98° 51'), limestones and mica-schists. J. C. B., **R**, XLVII, 247.
- Tatang-yogma, *Spiiti* (52 L/2; 32° 31': 78° 5'), U. Triassic limestones. F. S., **M**, V, 123.

- Tatapani, *Surguja* (64 M/10; 23° 41': 83° 39' 30"), coalfield. C. L. G., **M**, XV, 129 (figs. & Pls. i-vii); R. R. S., **M**, XLI, 80; hot springs. V. B., **M**, XV, 21; T. O., **M**, XIX, 137; L. L. F., **R**, L, 294.
- Tatchur (Tachchur), *N. Arcot* (57 P/6; 12° 34' 30": 79° 16' 30"), iron-ore. E. H. P., **R**, LXII, 54=Thechur.
- Tatekasa, *Balaghat* (55 O/14; 21° 43': 79° 53'), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Tathengarapattai, *Trichinopoly* (58 I/8; 11° 7': 78° 27'), chloritic schists. W. K., **M**, IV, 270=Thathensarapetta.
- Ta-ti, *N. Shan States* (93 F/6; 22° 42': 97° 21' 30"), Jurassic fossils. T. D. L., **M**, XXXIX, pt. 2, 307, 342; F. C. R., **R**, LXV, 185.
- Tatkan, *Myingyan* (84 L/14; 20° 37' 30": 94° 51'), Irrawadian clays. G. C., **R**, XXXVI, 130; E. H. P., **M**, XL, 66.
- Ta-tong, *Yunnan* (92 L/9; 24° 59': 98° 31' 30"), andesites. J. C. B., **R**, XLIII, 197.
- Tatpali, *Godavari* (65 G/2; 17° 37' 30": 81° 4'), borings for coal. W. T. B., **R**, IV, 61; **M**, XVIII, 304.
- Tatra, *Alwar* (54 A/12; 27° 12': 76° 43' 30"), basal beds, Alwar series. C. A. H., **R**, X, 86; A. M. H., **M**, XLV, 46; biotite-granite, 20=Talra.
- Tatranga, *Bamra* (73 B/8; 22° 7': 84° 17'), Dharwar conglomerate. E. H. P., **R**, LXIII, 85.
- Tatrot, *Jhelum* (43 H/5; 32° 52': 73° 21'), U. Siwalik fauna. G. E. P., **R**, XLIII, 321.
- Tatsang (Traksang), *Tibet* (77 D/16; 28° 13': 88° 47'), 'erratics'. H. H. H., **M**, XXXVI, 129; Cretaceous beds, 162-167; Tertiary, 172, 176.
- Ta-tsang-kai, *Yunnan* (101 C/7; 25° 25': 100° 16'), copper-ore. J. C. B., **M**, XLVII, 119.
- Tatta, *Karachi* (35 P/14; 24° 45': 67° 55'), Ranikot series, fossils. W. T. B., **R**, IX, 12, 21; XI, 166; **M**, XVII, 38.
- Tatwani, *Kangra* (52 D/12; 32° 7': 76° 43'), hot spring. T. O., **M**, XIX, 118.
- Tatwara, *Jaipur* (54 B/11; 26° 21': 76° 37' 30"), fault. A. M. H., **M**, XLV, 174.
- Taudapurtee (Tadpatri), *Anantapur* (57 J/1; 14° 54' 30": 78° 0' 30"), Pullampett slates and limestones. W. K., **M**, VIII, 182.
- Taukkashat, *Shwebo* (84 M/8; 23° 10': 95° 27'), fossil tree trunks. L. L. F., **R**, LXV, 95.
- Taukli, *Nander* (56 F/10; 18° 43': 77° 32' 30"), calcified gneiss. K. H., **R**, XLIX, 220.
- Taukshabin, *Minbu* (84 L/16; 20° 8' 30": 94° 54'), *Dendrophyllia*, U. Miocene. E. H. P., **R**, XXXVI, 148 (Pl. xxi); Pegu-Irrawadian boundary. **M**, XL, 156, 163.
- Taukyanggon, *L. Chindwin* (84 J/14; 22° 40': 94° 47'), alluvial gold. E. H. P., **R**, LXII, 53.
- Taultooky (Toltukki), *Salem* (58 I/9; 11° 57': 78° 31'), iron-ore bed. W. K., **M**, IV, 290; 'torrent mounds', 349.
- Taumi hill, *Hazara* (43 F/8; 34° 4': 73° 19'), Slate series, Eocene, section. C. S. M., **M**, XXVI, 164 (Pls. iii, fig. 1 & v).
- Taungalin, *Myingyan* (84 O/8; 21° 6': 95° 26'), Pegu anticline. E. H. P., **R**, LIX, 72.

- Taungbogyi, *Prome* (85° N/1; 18° 46': 95° 2'), oil seepage. M. S., R, XXXVIII, 270; E. H. P., M, XL, 177=Toungboji.
- Taungbotha, *Yamethin* (93 D/8; 20° 14' 30": 96° 18'), limestone quarry. E. H. P., R, LIX, 48; steatite, 51.
- Taungbu, *L. Chindwin* (84 J/16; 22° 11' 30": 94° 57'), granophyre. E. H. P., R, LXI, 107.
- Taungbyauk, *Tavoy* (95 K/6; 13° 44': 98° 26'), wolfram and tin concentrates, composition. J. C. B., M, XLIV, 241.
- Taungbyinninge, *Shwebo* (84 J/13; 22° 50' 30": 94° 49'), Proboscidean teeth. E. H. P., R, LX, 18; LXIII, 23, 104; kaolin, 42.
- Taungdwingyi, *Magwe* (84 P/12; 20° 0' 30": 95° 33'), Burma earthquakes, 1912. J. C. B., M, XLII, 65, 121.
- Taunggaung, *Mandalay* (93 B/8; 22° 8': 96° 20'), argentiferous galena. T. D. L., M, XXXIX, pt. 2, 73, 378; assay, G. S. L., R, XXXI, 47; barytes. L. L. F., R, XLVI, 237.
- Taunggyi, *S. Shan States* (93 H/1; 20° 47': 97° 2' 30"), Plateau Limestone. C. S. M., A. R., 1900, 135; Burma earthquakes, 1912. J. C. B., M, XLII, 38, 117, 123; aftershocks, 125-130; dam-site. L. L. F., R, LXV, 42.
- Taungkamauk, *Myingyan* (84 O/8; 21° 6': 95° 16'), Pegu anticline. E. H. P., M, XL, 136.
- Taungkyun, *Mandalay* (93 C/5; 21° 58': 96° 19'), Ordovician fossils. T. D. L., M, XXXIX, pt. 2, 67, 73.
- Taunglebyin, *Yamethin* (93 D/6; 20° 40': 96° 26'), copper-ore and gold. E. J. J., R, XX, 194=Lebyin.
- Taungmio, *Mandalay* (93 B/8; 22° 5': 96° 29' 30"), Ordovician fossils. T. D. L., M, XXXIX, pt. 2, 78.
- Taungnauk, *Myingyan* (84 P/1; 20° 49': 95° 0' 30"), volcanic cone. E. H. P., M, XL, 45.
- Taungnyo range, *Amherst* (95 E/13; 15° 53': 97° 51'), sandstones and shales, ? Mergui series. E. H. P., R, LXIII, 94.
- Taungpila, *Tavoy* (95 J/8; 14° 13': 98° 21'), tin- and wolfram-ores. J. C. B., R, L, 112; M, XLIV, 215, 291.
- Taungpyauk, *L. Chindwin* (84 J/15; 22° 18': 94° 59'), crater lake. R. D. O., R, XXXIV, 142.
- Taung-shun-taung, *Tavoy* (95 F/14; 14° 34' 30": 97° 57' 30"), wolfram. J. C. B., M, XLIV, 210, 270; cassiterite, 216.
- Taungtha hill, *Myingyan* (84 O/7; 21° 17': 95° 27'), structure and age. G. C., R, XXXVI, 149 (fig. & Pls. xxii, xxiii).
- Taungthonlon, *Tavoy* (95 J/8; 14° 9' 30": 98° 28'), topaz. J. C. B., M, XLIV, 223; wolfram dredging, 325.
- Taungu, *Burma* (94 B/5; 18° 56': 96° 26'), stone quarries. T. D. L., R, XL, 101 =Tonghoo and Toungoo.
- Taungu, *Shwebo* (84 M/4; 23° 7' 30": 95° 8' 30"), Irrawadian plants. L. L. F., R, LXV, 23, 95.
- Taung-u chaung, *Amherst* (94 K/8; 17° 4': 98° 25'), U. Triassic fossils. J. W. G., R, LXIII, 156.
- Tauq, *Iraq* (2 A/8; 35° 5': 44° 27'), anticline, Fars-Kurd series. E. H. P., M, XLVIII, 47 (Pl. vi).

- Tausa, *D. G. Khan* (39 J/10; 30° 42': 70° 39'), hot spring. T. O., **M**, XIX, 115.
- Tautlui, *Santal Parganas* (72 F/8; 24° 2': 87° 17'), hot spring. T. O., **M**, XIX, 140=Bhumka.
- Tavoy, *Burma* (95 J/4; 14° 4': 98° 11'), older alluvium. J. C. B., **M**, XLIV, 196; Pegu earthquake, 1930. **R**, LXV, 242.
- Tavoy I., *Mergui* (95 K/8; 13° 7': 98° 16'), quartzites and volcanic rocks. E. H. P., **R**, LV, 32.
- Tawa, *Pegu* (94 C/8; 17° 13': 96° 30'), earthquake, 1930. J. C. B., **R**, LXV, 230.
- Tawa R., *Betul* (55 J/4; 22° 8': 78° 11'), coalfield. J. G. M., **M**, II, 150-159; W. T. B., **R**, I, 8; E. J. J., **M**, XXIV, 40 (Pl. ii); R. R. S., **M**, XLI, 94; re-survey. E. H. P., **R**, LIX, 89.
- Ta-wang-miao, *Yunnan* (101 B/4; 26° 1': 100° 11' 30'), Permian fossils. J. C. B., **R**, LIV, 325.
- Tawargatti, *Belgaum* (48 I/11; 15° 25': 74° 41'), manganese-ore. L. L. F., **M**, XXXVII, 80, 240, 642.
- Ta-wa-tzu, *Yunnan* (101 O/4; 25° 4': 103° 6'), coal seams. J. C. B., **R**, XLIV, 104; **M**, XLVII, 76.
- Ta-wa-ya-kou, *Yunnan* (101 F/6; 26° 38': 101° 20'), coal seam. J. C. B., **R**, LIV, 330.
- Tawle, *Ramri I.* (85 E/12; 19° 8': 93° 43'), gas pool. E. H. P., **M**, XL, 193.
- Tawma, *L. Chindwin* (84 O/1; 21° 47' 30": 95° 2' 30"), Pegu-Irrawadian boundary. E. H. P., **R**, LX, 87.
- Tawmaw, *Myitkyina* (92 C/6; 25° 41': 96° 15' 30"), jadeite mines. F. N., **R**, XXVI, 27; A. W. G. B., **R**, XXXVI, 255 (fig. & Pl. xxxv); chromite. E. H. P., **R**, LXII, 33=Tammaw.
- Tawmawgon, *N. Shan States* (93 B/10; 22° 32': 96° 31'), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 74.
- Tawmun, *Thayetmyo* (85 M/3; 19° 26': 95° 6'), Burma earthquake, 1912. J. C. B., **M**, XLII, 68.
- Tawngma, *N. Shan States* (93 F/1; 22° 53': 97° 13' 30"), Silurian beds. T. D. L., **M**, XXXIX, pt. 2, 135, 136.
- Tawok, *Amherst* (94 L/5; 16° 52': 98° 22'), hornblende schist, Mergui series. G. C., **R**, LV, 280; oil shales, 297.
- Tawshe, *Tavoy* (95 J/4; 14° 7' 30": 98° 3'), wolfram vein. J. C. B., **M**, XLIV, 273.
- Tawurugiri, *Raichur* (57 A/5; 15° 46': 76° 24'), hornblende-schist., R. B. F., **M**, XII, 48; iron-ore, 51.
- Tayawgaing, *Shwebo* (84 N/13; 22° 54' 30": 95° 46' 30"), Irrawadian beds. E. H. P., **R**, LXIII, 103.
- Tay-in-shan, *Yunnan* (92 K/8; 25° 7': 98° 27' 30"), volcano. J. C. B., **R**, XLIII, 191 (Pls. ix & xi); basalt, petrology. R. C. B., **R**, XLIII, 206.
- Taykoor (Peddatekuru), *Kurnool* (57 I/2; 15° 44': 78° 0'), millstone grits. W. K., **M**, VIII, 283.
- Tayur (Thayur), *Mysore* (57 D/16; 12° 12' 30": 76° 50'), mica. T. H. H., **M**, XXXIV, 68.
- Tazah Khurmatu, *Iraq* (2 A/7; 35° 16': 44° 21'), anticline, Kurd series. E. H. P., **M**, XLVIII, 46 (Pl. vi).
- Tazu, *Pakokku* (84 K/7; 21° 17' 30": 94° 20'), coalfield. G. C., **R**, XLIV, 176 (Pls. vi, xi, fig. 1 & xii).

- Tebo, *Singhbhum* (73 F/5; 22° 46' : 85° 27'), Arkasani granite-gneiss. J. A. D., **M**, LIV, 102, 106; hornblende-schist inclusion in granite, analysis. L. A. N., **R**, LXV, 520.
- Techaung, *Thayetmyo* (85 M/10; 19° 33' : 95° 31' 30"), Pegu fossils. E. H. P., **R**, LVIII, 48.
- Tedodita Sakan, *Salween* (94 F/4; 18° 12' 30" : 97° 12'), Plateau Limestone. E. L. C., **R**, LX, 298.
- Teeladeeh, *Hazaribagh* (73 E/1; 23° 57' : 85° 0' 30"), Talchir-gneiss boundary. A. J., **M**, LII, 9.
- Teelaya, *Hazaribagh* (73 E/9; 23° 47' : 85° 39'), Barakar beds, section. T. W. H. H., **M**, VI, 80.
- Teer, *Hazara* (43 F/4; 34° 5' 30" : 73° 1'), Infra-Triassic beds, section. C. S. M., **M**, XXVI, 233 (figs.).
- Teertamullay (Tirtha Malai), *Salem* (57 L/12; 12° 5' : 78° 36'), iron-ore beds. W. K., **M**, IV, 289.
- Teesrah, *Manbhum* (73 I/6; 23° 43' 30" : 86° 26' 30"), coal seams. T. W. H. H., **M**, V, 248.
- Teetul (Tithal), *Surat* (46 D/14; 20° 36' : 72° 54'), recent conglomerate. A. B. W., **R**, I, 32.
- Tehla, *Alwar* (54 A/8; 27° 14' : 76° 25'), trap flows, Alwar series. C. A. H., **R**, X, 89; A. M. H., **M**, XLV, 44, 91; Alwar quartzites, 47.
- Tehrud, *Persia* (24 G/15; 29° 25' 30" : 57° 49'), Siwalik beds. G. H. T., **R**, LIII, 67.
- Teington (Tangon), *U. Chindwin* (83 P/5; 24° 50' : 95° 17'), alluvial gold. H. S. B., **R**, XLIII, 263 (Pl. xxiv, fig. 1).
- Tejgad, *Chota Udaipur* (46 F/15; 22° 21' : 73° 54' 30"), granite quarries. G. V. H., **R**, LIX, 343.
- Tejpur, *Rajpipla* (46 G/5; 21° 46' 30" : 73° 17'), limestone, analysis. P. N. B., **R**, XXXVII, 185.
- Tejuwala, *Shahpur* (43 D/6; 32° 34' : 72° 29'), coal seam. T. H. H., **R**, XXXIX, 70.
- Tekaido, *Salween* (94 F/8; 18° 7' : 97° 21' 30"), Chaung Magyi slates. E. L. C., **R**, LX, 297.
- Tekari, *Nagpur* (55 K/14; 21° 33' 30" : 78° 57'), pegmatite. E. H. P., **R**, LVIII, 55.
- Tekkulkote, *Bellary* (57 A/14; 15° 32' : 76° 52'), granite tors. R. B. F., **M**, XXV, 61.
- Tekowli, *Satara* (47 G/9; 17° 52' 30" : 73° 43'), manganese-ore. L. L. F., **M**, XXXVII, 662.
- Tekrasai (Tekorohatu), *Singhbhum* (73 F/14; 22° 30' 30" : 85° 48'), manganese-ore. L. L. F., **M**, XXXVII, 100-105, 107-108, 625.
- Tel Pung, *Naga Hills* (83 J/13; 26° 46' : 94° 49'), oil, limestone and coal. F. R. M., **M**, XII, 358, 362; R. R. S., **R**, XXXIV, 223; E. H. P., **M**, XI, 285.
- Tel R., *Kalahandi* (65 I/13; 19° 58' : 82° 58'), Gondwana sandstone. T. L. W., **M**, XXXIII, pt. 3, 12.
- Telbhita, *Santal Parganas* (72 P/5; 24° 49' : 87° 26'), fire-clay. M. S., **R**, XXXVIII, 140.
- Teloherra, *Khasi Hills* (78 O/12; 25° 11' : 91° 31'), oil seepage. R. W. P., **R**, LV, 165=Khasimara.

- Teliadeo (Teliapathar), *Chhindwara* (55 K/13; 21° 49': 78° 40'), Deccan trap. P. N. D., **R**, XXXIII, 222.
- Teligi, *Bellary* (48 N/14; 14° 39': 75° 53'), hematite beds. R. B. F., **M**, XXV, 79.
- Telingkhedi, *Nagpur* (55 O/4; 21° 9': 79° 2' 30"), Intertrappean bed. W. T. B., **M**, IX, 320.
- Tellabodu, *Nellore* (57 N/12; 14° 11' 30": 79° 43'), mica mine. C. S. F., **R**, LVII, 243.
- Tellanela-mulla (Telanillamala), *Nellore* (57 M/4; 15° 14': 79° 7'), Nallamalai beds, section. W. K., **M**, VIII, 220 (fig.).
- Tellavari (Yelavare), *Hassan* (57 C/3; 13° 15' 30": 76° 14'), Dharwar outlier. R. B. F., **R**, XXII, 18.
- Teludi, *Bankura* (73 I/14; 23° 34': 86° 54'), magnetic iron-ore. V. B., **M**, XVIII, 106.
- Telwasa, *Chanda* (55 P/4; 20° 3': 79° 5'), boring for coal. T. O., **R**, III, 2, 47; section. T. W. H. H., **M**, XIII, 30.
- Tembana Nath, *Idar* (46 E/2; 23° 41': 73° 14'), sericite-schists and quartz veins, Phyllite series. C. S. M., **M**, XLIV, 86, 88.
- Tembiung, *Shwebo* (84 N/13; 22° 54': 95° 55'), coal seam. R. R. S., **M**, XLI, 71.
- Temi, *Sikkim* (78 A/8; 27° 14': 88° 25'), copper-ore. P. N. B., **R**, XXIV, 227.
- Tendau, *Mergui* (95 P/3; 12° 19': 99° 9'), coalfield. P. N. B., **R**, XXVI, 148 (Pls. xx, xxi); R. R. S., **M**, XLI, 62=Thendaw.
- Tendu, *Singbhum* (73 F/10; 22° 38' 30": 85° 31'), manganiferous iron-ore. V. B., **M**, XVIII, 147.
- Tendukhera, *Narsinghpur* (55 I/16; 23° 10': 78° 52'), Lameta beds. T. H. H., **R**, XXXV, 55; dykes, Deccan trap age. H. H. H., **R**, XLVII, 37.
- Tendwa, *Hazaribagh* (73 E/1; 23° 51': 85° 2'), coal seams. T. W. H. H., **M**, VII, 316=Tandwa and Tundwa.
- Tendwaha (Tamoria) R., *Hazaribagh* (72 H/14; 24° 42': 85° 47'), beryl and garnet. F. R. M., **R**, VII, 43.
- Teng-ch'uan Chou, *Yunnan* (101 C/1; 26° 0': 100° 5'), iron mine. J. C. B., **M**, XLVII, 94.
- Tenghio, *N. Shan States* (93 J/1; 22° 58': 98° 14'), anticline, Plateau Limestone. T. D. L., **M**, XXXIX, pt. 2, 81.
- Tengria, *Ranchi* (73 F/5; 22° 56': 85° 17' 30"), microgranite, analysis. L. A. N., **R**, LXV, 502 (Pl. xxv, fig. 2).
- Teng-tzu-p'u, *Yunnan* (92 P/1; 24° 47': 99° 1'), Carboniferous beds, section. J. C. B., **R**, XLVII, 255.
- Teng-yueh, *Yunnan* (92 K/8; 25° 2': 98° 30'), waterfall. J. C. B., **R**, XLIII, 176 (Pl. xiii); crystalline rocks, 187; volcanoes, 188 (Pls. viii-xii); hot springs, 204; peat beds. **M**, XLVII, 61; Burma earthquake, 1912. **M**, XLII, 75.
- Teok R., *Sibsagar* (83 M/4; 27° 3': 95° 4'), oil seepage. F. R. M., **M**, XII, 358 =Tiok R.
- Teona, *Gaya* (72 D/2; 24° 35': 84° 10'), geodetic station. R. D. O., **M**, XLII, 220.
- Teonda, *Jaipur* (45 M/13; 27° 58': 75° 53'), hornstone, Ajabgarh series. A. M. H., **R**, LIV, 374.
- Teori, *Jodhpur* (45 B/14; 26° 33': 72° 53'), grains of sandstone in blown sand. T. D. L., **M**, XXXV, 38, 40.

- Tepe (Tese-ru) R., *Naga Hills* (83 K/5; 25° 46': 94° 28'), roofing slates. E. H. P., R, XLII, 263.
- Tera, *Cutch* (41 A/15; 23° 17': 68° 56'), earthquake, 1819. R. D. O., M, XLVI, 108=Teyrah.
- Tera Gadh, *Almora* (62 B/16; 30° 14': 80° 55'), overthrust in Permo-Triassic beds. C. L. G., M, XXIII, 190 (Pls. ix, figs. 4 & 6 and Pls. xxvi, xxvii); U. Triassic fauna. C. D., M, XXXVI, 322.
- Terany, *Trichinopoly* (58 I/16; 11° 6': 78° 52'), Utatur plant beds. H. F. B., M, IV, 42, 85; kaolin, 212; plant beds, horizon. R. B. F., R, XI, 248, 258.
- Terap R., *Lakhimpur* (83 M/15; 27° 20': 95° 52'), coal measures. H. B. M., M, IV, 398=Tirap R.
- Teria Ghat, *Khasi Hills* (78 O/16; 25° 11': 91° 45'), limestone quarries. T. O., M, I, 183=Theria Ghat.
- Teriat, *Lushai Hills* (84 B/13; 22° 51': 92° 48'), Cretaceous fossils. T. D. L., R, XXIV, 98.
- Tering, *Mayurbhanj* (73 J/2; 22° 31': 86° 4'), potstone. L. L. F., R, LIII, 302=Tiring.
- Terriha, *Rewah* (64 E/11; 23° 17' 30": 81° 39' 30"), coal seams. T. W. H. H., M, XXI, 245.
- Terthapuri, *Hundes* (62 A/16; 31° 7': 80° 48'), hot spring. T. O., M, XIX, 128.
- Tesaphuli (Kesaphuli), *Santal Parganas* (72 P/5; 24° 49': 87° 30'), coal mine. T. O., M, VII, 149; R. R. S., M, XLI, 40.
- Te-shin-tang, *Yunnan* (101 B/12; 26° 5': 100° 35' 30"), igneous rocks. J. C. B., R, LIV, 82.
- Teshung, *Tibet* (77 K/8; 29° 7': 90° 21'), water-parting. H. H. H., M, XXXVI, 134.
- Teter, *Behul* (55 F/12; 22° 14': 77° 45'), quartz vein. H. B. M., R, VIII, 84.
- Te-thun, *S. Shan States* (93 D/9; 20° 58' 30": 96° 44'), iron-ore. E. H. P., R, LXIII, 38.
- Teti R., *Bashahr* (53 I/6; 31° 42': 78° 17'), Cambrian beds. H. H. H., M, XXXVI, 10; Ordovician, 23; Muth quartzite, 29 (Pl. x).
- Tetma, *Myingyan* (84 L/13; 20° 57' 30": 94° 59' 30"), drilling for oil. E. H. P., M, XL, 133.
- Tetmatla, *Adilabad*, (56 N/9; 18° 48' 30": 79° 33'), *Kamthi* beds (?). T. W. H. H., R, XI, 21.
- Tetulguma, *Jeypore* (65 J/2; 18° 44': 82° 8' 30"), Cuddapah conglomerate. T. L. W., A. R., 1900, 172.
- Teva, *Kangra* (52 D/4; 32° 8': 76° 11'), hot springs, saline. T. O., M, XIX, 117.
- Tewangarh (Tamangarh), *Karauli* (54 F/6; 26° 43': 77° 16'), Vindhyan boundary fault. A. M. H., M, XLV, 131, 169.
- Teyrah, *Cutch* (41 A/15; 23° 17': 68° 56'), Tertiary beds, section. A. B. W., M, IX, 273; Gaj series, mollusca. E. V., M, L, 44, 114, 140, etc.=Tera.
- Tezam, *Almora* (62 C/1; 29° 57': 80° 8'), dolomitic limestone. T. W. H. H., R, XI, 183.
- Tezin, *Afghanistan* (38 F/11; 34° 21': 69° 36' 30"), limestone. H. H. H., M, XXXIX, 45.
- Tezpur, *Assam* (83 B/14; 26° 37': 92° 48'), older alluvium. H. B. M., M, IV, 438; earthquake, 1897. T. D. L., M, XXIX, 267.

- Tezu, *Meiktila* (84 O/16; 21° 8' : 95° 51' 30"), irrigation tank. E. H. P., **R**, LXI, 89.
- Thabalik, Thabawleik, *Mergui* (95 P/4; 12° 1' : 99° 12'), tin-ore. T. W. H. H., **R**, XXII, 192; T. H. H., **R**, XXXVII, 41; E. H. P., **R**, LIII, 20=Thibawleik.
- Thabeikkyin, *Ruby Mines* (84 N/13; 22° 53' : 95° 59'), Burma earthquake, 1912. J. C. B., **M**, XLII, 47; aftershocks, 130.
- Tha-bhet-kway, *Toungoo* (94 B/5; 18° 54' : 96° 16'), fossil wood beds. W. T., **M**, X, 262.
- Thabiegaing, *Thayetmyo* (85 I/16; 19° 1' : 94° 55'), Halobia beds. W. T., **R**, IV, 39.
- Thabo, *Spiti* (52 L/8; 32° 5' : 78° 23'), Carboniferous beds. F. S., **M**, V, 20, 24; Culm, plant beds. H. H. H., **M**, XXXVI, 47; Fenestella shales, 49-51 (Pl. xii).
- Thabut Taung, *Amherst* (95 E/10; 15° 42' : 97° 43' 30"), biotite-granite. E. H. P., **R**, LXI, 102.
- Thabutkon, *Meiktila* (84 P/9; 20° 56' : 95° 38'), Passage beds, Pegu-Irrawadian series. E. H. P., **R**, LIX, 71.
- Thabyegon, *Mandalay* (93 C/5; 21° 53' 30" : 96° 25'), Ordovician beds. T. D. L., **M**, XXXIX, pt. 2, 90.
- Thabyemyaung, *Thayetmyo* (85 I/13; 19° 47' : 94° 45' 30"), hot springs and mud volcanoes. E. H. P., **M**, XI, 169.
- Thabyu, *Amherst* (95 I/6; 15° 36' : 98° 29' 30"), antimony mine. A. M. H., **R**, LIII, 34 (Pl. ii); J. C. B., **R**, LVI, 100.
- Thachenkurichi, *Tanjore* (58 N/2; 10° 40' : 79° 0'), Cuddalore beds. R. B. F., **R**, XII, 149.
- Thadejhari, *Bhandara* (64 C/4; 21° 13' : 80° 3'), anticlinorium, calc-granulite. L. L. F., **R**, LXV, 110.
- Thadikarenkonam, *Travancore* (58 H/7; 8° 19' 30" : 77° 25'), monazite *in situ*. H. H. H., **R**, XLI, 71.
- Thaictmio, *Burma* (85 M/3; 19° 19' : 95° 11'), alluvial gravels. W. T., **M**, X, 241; fossil-wood beds, 248; limestone and coal, 295, 297, 342, 344=Thayetmyo.
- Thail, *Rawalpindi* (43 G/10; 33° 44' : 73° 30' 30"), M. Siwalik beds. D. N. W., **M**, LI, 358.
- Thail (Thel), *Simla* (53 E/8; 31° 9' : 77° 16'), Chail series. G. E. P., **M**, LIII, 123.
- Thajwaz, *Kashmir* (43 N/7; 34° 18' : 75° 16'), Triassic beds. R. L., **R**, XI, 46; **M**, XXII, 146=Tashvaz.
- Thaket, *Mergui* (95 P/4; 12° 6' : 99° 6'), carbonaceous shales. P. N. B., **R**, XXVI, 151=Tagit.
- Thakkuttaw, *Shwebo* (84 N/15; 22° 24' : 95° 47'), mud springs. L. L. F., **R**, LXV, 93=Thakuttaw.
- Thakurani Buru, *Keonjhar* (73 F/8; 22° 6' : 85° 26'), iron-ore. H. C. J., **R**, LIV, 210.
- Thakurgaon, *Ranchi* (73 E/2; 23° 31' : 85° 11'), 'dome' gneiss. O. F., **R**, XIV, 250 (Pl. vi).
- Thakurmunda, *Mayurbhanj* (73 K/2; 21° 31' : 86° 9'), iron-ore. P. N. B., **R**, XXXI, 169.
- Thakurtola, *Drug* (64 C/14; 21° 38' 30" : 80° 58'), feldites and tuffa, Chilpi Ghat series. P. N. B., **R**, XXI, 57, 61.



- Thakutkyaw, *Thayetmyo* (85 I/15; 19° 18': 94° 54'), Eocene foraminifera. E. H. P., **R**, LVIII, 45.
- Thakuttaw, *Shwebo* (84 N/15; 22° 24': 95° 47'), salt works. E. H. P., **R**, LV, 25=Thakkuttaw.
- Thal, *Kohat* (38 K/11; 33° 22': 70° 33'), Eocene beds. A. B. W., **R**, XII, 110; thickness. E. H. P., **M**, XL, 348.
- Thaladan, *Prome* (85 N/2; 18° 33': 95° 2'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 239.
- Thalan (Phalan) Khoung, *Amherst* (95 E/16; 15° 12': 98° 0'), hot spring, saline. T. O., **M**, XIX, 152.
- Thalauk, *L. Chindwin* (84 J/11; 22° 15': 94° 40'), sulphurous spring. E. H. P., **R**, LXI, 72.
- Thalera, *Bundi* (45 O/11; 25° 19': 75° 44' 30"), limestone in Sirbu shales. A. L. C., **R**, LX, 179.
- Thali, *Jaipur* (54 A/4; 27° 4': 76° 12'), basal beds, Raialo quartzite. A. M. H., **M**, XLV, 25.
- Thalli (Talai), *Salem* (57 H/10; 12° 35': 77° 39'), augite-norite, petrology. T. H. H., **R**, XXX, 30.
- Thaloochaynaur (Talugai) R., *Trichinopoly* (58 I/7; 11° 21': 78° 28'), 'kankar' conglomerate. W. K., **M**, IV, 343.
- Thaloor (Talur), *Trichinopoly* (58 M/4; 11° 7' 30": 79° 11'), sands, Ariyalur stage. H. F. B., **M**, IV, 139; iron-ore, 216.
- Thamakan (Hsamongkam), *S. Shan States* (93 D/10; 20° 41': 96° 41'), limestone. C. S. M., **A. R.**, 1900, 134; laterite, 147.
- Thamandewah, *Bassein* (85 L/11; 16° 26': 94° 41'), nummulitic limestone. W. T., **M**, X, 292, 345.
- Thamangon, *L. Chindwin* (84 N/8; 22° 13': 95° 17' 30"), volcanic rocks. E. H. P., **R**, LX, 86.
- Thambula, *Thayetmyo* (85 I/15; 19° 16': 94° 53'), Nummulitic series, section. W. T., **M**, X, 286.
- Thaminthat, *L. Chindwin* (84 J/11; 22° 15': 94° 44' 30"), alluvial gold. E. H. P., **R**, LXI, 56.
- Thamonbin, *Magwe* (84 P/7; 20° 25' 30": 95° 16' 30"), Pegu series, fossils. E. H. P., **R**, XXXVI, 291.
- Than, *Kathiarwar* (41 N/2; 22° 35': 71° 12'), Umia beds, plants. F. F., **M**, XXI, 81; trap dykes, 103 (figs.); carbonaceous shale, 133; R. R. S., **M**, XLI, 61.
- Thana, *Dehra Dun* (53 F/14; 30° 40': 77° 53'), Chail limestone. G. E. P., **M**, LIII, 49.
- Thana, *Hoshangabad* (55 J/2; 22° 38': 78° 9'), Denwa beds. E. H. P., **R**, LXIII, 111.
- Thana, *Mewar* (45 H/16; 24° 13': 73° 49' 30"), iron-ore. E. H. P., **R**, LXII, 55.
- Thana Wasa, *Chanda* (56 M/9; 19° 51': 79° 44'), pyroxenite, charnockite series. K. H., **R**, LV, 256.
- Thanam R., *Bashahr* (53 I/5; 31° 50': 78° 23'), Cambro-Silurian unconformity. H. H. H., **M**, XXXVI, 18; Ordovician beds, 29; Muschelkalk, 71; Ladimic stage, 78 (Pl. xi); C. D., **M**, XXXVI, 272.
- Thanatpin, *Pegu* (94 C/11; 17° 17' 30": 96° 34'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 236.

- Thanat-na, *Thayetmyo* (85 M/7; 19° 23': 95° 17'), silty clay, Irrawadian series. W. T., **R**, II, 83.
- Thanbawk, *U. Chindwin* (84 J/9; 22° 57': 94° 45'), opalised wood. E. H. P., **R**, LXIII, 104.
- Thanbayagaing, *Minbu* (84 L/12; 20° 4' 30": 94° 34'), Sitsayan stage, fossils. G. C., **R**, XLI, 222.
- Thanbayagon, *Yamethin* (84 P/16; 20° 12': 95° 56'), U. Pegu fossils. E. H. P., **R**, LVIII, 51.
- Thanbo, *Shwebo* (84 N/10; 22° 44': 95° 41'), 'kankar'. L. L. F., **R**, LXV, 36.
- Thanbodaung, *L. Chindwin* (84 O/1; 21° 50': 95° 1' 30"), Pegu-Irrawadian boundary. E. H. P., **R**, LX, 87.
- Thanga, *Thayetmyo* (85 M/6; 19° 32': 95° 20'), Tertiary gastropoda. E. V., **R**, LIII, 84, 130; LV, 54, 60; **M**, L, 302.
- Thangaon, *Rewah* (64 I/3; 23° 17' 30": 82° 8' 30"), coal seams. T. W. H. H., **M**, XXI, 195, 245.
- Thangazon, *Tavoy* (95 J/8; 14° 12': 98° 16'), wolframite lodes, analyses. A. W. G. B., **R**, XLIII, 68.
- Thangme, *Sikkim* (78 A/2; 27° 31': 88° 11'), old moraines. P. N. B., **R**, XXIV, 219.
- Thangyi Daung, *Pakokku* (84 K/11; 21° 20': 94° 44'), Pegu-Irrawadian boundary. E. H. P., **M**, XL, 110.
- Thanjinath, *Khasi Hills* (78 O/15; 25° 17' 30": 91° 54'), coal seam. R. R. S., **M**, XLI, 25=Tung-ji-nath.
- Thanlegyi, *L. Chindwin* (84 J/16; 22° 11' 30": 94° 54'), indurated sandstone, Irrawadian. E. H. P., **R**, LXI, 110.
- Thanni Choung, *Prome* (85 J/13; 18° 52': 94° 57'), Axial series. W. T., **R**, V, 81.
- Thanpaya Chaung, *Pakokku* (84 K/7; 21° 20': 94° 16'), nummulites. G. C., **R**, XLIV, 77.
- Thanwunjhori, *Secni* (55 O/5; 21° 56': 79° 29'), dykes, Deccan trap age. H. H. H., **R**, XLIV, 36.
- Thapan, *L. Chindwin* (84 N/3; 22° 22': 95° 13'), Irrawadian beds, E. H. P., **R**, LXII, 102.
- Thapangyo, *Thayetmyo* (85 I/16; 19° 4' 30": 94° 58'), Eocene limestone. E. H. P., **R**, LVIII, 45.
- Thapaye (Tappay), *Trichinopoly* (58 J/13; 10° 59' 30": 78° 55'), beach deposits, Trichinopoly stage. H. F. B., **M**, IV, 114.
- Tharabwin, *Mergui* (95 P/3; 12° 18': 99° 3'), coal seam. T. W. H. H., **R**, XXVI, 49=Tharabwin.
- Tharapon, *Mergui* (95 L/16; 12° 9': 98° 53'), tin-ore. T. W. H. H., **R**, XXII, 189.
- Tharka (Dharka), *Jubbulpore* (64 A/6; 23° 43': 80° 25'), ferruginous laterite. C. S. F., **M**, XLIX, 117.
- Tharrawaddy, *Burma* (85 O/14; 17° 39': 95° 47'), earthquakes: Burma, 1912. J. C. B., **M**, XLII, 70; Pegu, 1930. **R**, LXV, 227.
- Thatar, *Nimar* (55 C/3; 21° 23': 76° 12'), dam-site. E. H. P., **R**, LXII, 88.
- Thatha (Kokraha), *Palamau* (73 A/1; 23° 45' 30": 84° 2'), hot spring, sulphurous. V. B., **M**, XV, 20; T. O., **M**, XIX, 138.
- Thathensarapetta (Tattayangarpettai), *Trichinopoly* (58 I/8; 11° 7': 78° 27'), iron-ore beds. W. K., **M**, IV, 286=Tathengarapattai.

- Thaton, *Burma* (94 H/5; 16° 55': 97° 22'), water-supply. E. H. P., **R**, LIII, 13.
- Thatta, *Attock* (43 C/2; 33° 35': 72° 13'), Murree beds. E. H. P., **R**, LXI, 126.
- Thatti Sahidan, *Attock* (43 C/3; 33° 26': 72° 13'), strike fault. E. H. P., **R**, LXIII, 140.
- Thaungbyin, *Pakokku* (84 J/4; 22° 9': 94° 5' 30"), L. Siwalik fossils. E. H. P., **R**, LVI, 42.
- Thaungyin R., *Amherst* (94 L/N. E.; 16° 39' : 98° 33'), manganese-ore. L. L. F., **M**, XXXVII, 669.
- Thavyur (Tevaiyur), *Trichinopoly* (58 I/15; 11° 19' 30": 78° 56'), trap dyke. W. K., **M**, IV, 329.
- Thayaing, *Shwebo* (84 N/15; 22° 22' 30": 95° 51'), 'kankar'. L. L. F., **R**, LXV, 36.
- Thayetkwa, *Pakokku* (84 K/14; 21° 33': 94° 51'), oil and coal. E. H. P., **M**, XL, 139.
- Thayetlebin, *Magwe* (84 P/4; 20° 5' 30". 95° 7'), bridge site. L. L. F., **R**, LXV, 40.
- Thayetmyo, *Burma* (85 M/3; 19° 19': 95° 11'), coal seams. R. R., **R**, XVIII, 150; R. R. S., **M**, XLI, 65; limestone, horizon. G. C., **R**, XLI, 323; earthquakes: Assam, 1897. R. D. O., **M**, XXIX, 39; time record, 67; Burma, 1912. J. C. B., **M**, XLII, 67; Srimangal, 1918. M. S., **M**, XLVI, 34=Thaet-mio.
- Thazi, *L. Chindwin* (84 N/8; 22° 14': 95° 16'), alluvial gold. H. S. B., **R**, XLIII, 250.
- Thazi, *Meiktila* (93 D/1; 20° 51': 96° 6'), water-supply. E. H. P., **R**, LX, 62.
- Thebon, *Tavoy* (95 J/4; 14° 4' 30": 98° 9'), wolfram vein. J. C. B., **M**, XLIV, 273.
- Thebyu, *Prome* (85 N/1; 18° 53': 95° 12'), fossils, Kama clay stage. G. C., **R**, XXXVIII, 265.
- Thechur, *N. Arcot* (57 P/6; 12° 34' 30": 79° 16' 30"), U. Gondwana outlier. R. B. F., **R**, XII, 200=Tatchur.
- Thed, Theed, *Kashmir* (43 J/16; 34° 5' 30": 74° 52' 30"), hot spring. T. O., **M**, XIX, 119; R. L., **M**, XXII, 42.
- Theerampolliam (Tirampalaiyam), *Trichinopoly* (58 J/9; 10° 56': 78° 39' 30"), magnesite in travertine. W. K., **M**, IV, 321.
- Thegon (Thigaung), *S. Shan States* (93 D/14; 20° 42': 96° 51'), copper-ore. E. H. P., **R**, LXIII, 33.
- Theinchon (Thaingchwein), *Ramri I.* (85 E/12; 19° 14' 30": 93° 41'), oil seepage. E. H. P., **M**, XL, 193.
- Theinkun R., *Mergui* (96 M/N. W.; 11° 50': 99° 15'), tin- and tungsten-ore. E. H. P., **R**, LV, 29.
- Thokemyaung, *Magwe* (85 M/10; 19° 44': 95° 43'), Burma earthquake, 1912. J. C. B., **M**, XLII, 64.
- Thendaw, *Mergui* (95 P/3; 12° 19': 99° 9'), tin-ore. T. W. H. H., **R**, XXVI, 51=Tondau.
- Theog, *Simla* (53 E/8; 31° 7' 30": 77° 21' 30"), Simla slates. H. B. M., **M**, III, pt. 2, 38; Chail limestone. G. E. P., **M**, LIII, 114=Thiog.
- Tharabwin, *Mergui* (95 P/3; 12° 18': 99° 3'), Carboniferous fossils. F. N., **R**, XXVI, 96 (Pl. xiv); P. N. B., **R**, XXVI, 151; iron-ore, assay, 162; limestone, analysis, 163; coal seam. R. R. S., **M**, XLI, 63=Tharabwin.
- Theria Ghat, *Khasi Hills* (78 O/16; 25° 11': 91° 45'), nummulitic beds, section. H. B. M., **M**, VII, 164; Cretaceous fossils, 182=Teria Ghat.

- Thetkaw, *Amherst* (95 E/13; 15° 52' : 97° 46'), tin-ore. E. H. P., **R**, LXIII, 97.
- Thetkagyin, *Pakokku* (84 K/7; 21° 17' : 94° 16'), Tertiary gastropoda. E. V., **R**, LIII, 130; LV, 65.
- Thibawleik, *Mergui* (95 P/4; 12° 1' : 99° 12'), tin-ore. T. W. H. H., **R**, XXVI, 41, 48=Thabalik.
- Thibingaing, *Pakokku* (84 K/9; 21° 50' : 94° 40'), conglomerate, Pondaung stage. L. L. F., **R**, LIV, 52.
- Thigon, *Myingyan* (84 O/7; 21° 19' : 95° 17'), water-supply. E. H. P., **R**, LX, 60.
- Thigyit (Haihkip), *S. Shan States* (93 D/11; 20° 25' : 96° 43'), lignite. E. J. J., **R**, XX, 190; C. S. M., **A. R.**, 1900, 149; R. R. S., **M**, XLI, 69.
- Thil, *Jhelum* (43 H/6; 32° 42' : 73° 20'), Talchir boulder bed. E. H. P., **R**, LXIII, 134.
- Thinbaungga, *Shwebo* (84 N/13; 22° 52' 30" : 95° 58'), coal seam. E. H. P., **R**, LXIII, 32.
- Thingadaw (Thihadaw), *Shwebo* (84 N/13; 22° 51' : 95° 58'), coalfield. W. K., **R**, XXVII, 33; R. R. S., **M**, XLI, 71.
- Thingan, *Thayetmyo* (85 N/1; 18° 52' : 95° 7' 30"), fossils, Kama clay stage. M. S., **R**, XXXVIII, 265; oil seepage. E. H. P., **M**, XI, 176.
- Thingandon, *Tavoy* (95 J/8; 14° 10' : 98° 21'), fluorite. J. C. B., **M**, XLIV, 223; wolfram mine, 294; **R**, L, 112.
- Thingannyinaung, *Amherst* (94 L/6; 16° 41' : 98° 24'), tourmaline-pegmatite. G. C., **R**, LV, 279.
- Thingunaing, *Mandalay* (93 C/5; 21° 55' 30" : 96° 23'), graptolite beds. T. D. L., **A. R.**, 1900, 90=Kyinganaing.
- Thiog, *Simla* (53 E/8; 31° 7' 30" : 77° 21' 30"), Blaini conglomerate and limestone. C. A. M., **R**, X, 211, 213=Theog.
- Thirori, *Balaghat* (55 O/10; 21° 41' : 79° 43'), rhodonite. L. L. F., **M**, XXXVII, 141; manganese-ore, 328, 698 (fig.); braunite crystals. **R**, XLI, 43 (fig.).
- Thitkado, *Tavoy* (95 J/7; 14° 16' : 98° 19'), wolfram mine. J. C. B., **M**, XLIV, 287.
- Thit-myt-kyi, *Minbu* (84 L/4; 20° 11' : 94° 10'), steatite mines. H. H. H., **R**, XXIX, 72.
- Thitpon, *Cheduba I.* (85 F/10; 18° 44' : 93° 37'), oil wells. E. H. P., **M**, XL, 194.
- Thittabwe, *Magwe* (84 L/15; 20° 26' 30" : 94° 53'), vertebrate fossils. E. H. P., **M**, XL, 36.
- Thob, *Jodhpur* (45 B/8; 26° 3' : 72° 23'), Malani rhyolite and ash beds. T. D. L., **M**, XXXV, 50.
- Thobal, *Manipur* (83 L/2; 24° 38' : 94° 0'), titaniferous iron-ore. R. D. O., **M**, XIX, 240.
- Tholkabad, *Singbhum* (73 F/4; 22° 8' : 85° 11'), breccia conglomerate, Iron-Ore series. E. H. P., **R**, LVI, 36.
- Tholya-nuttum (Tulaiyanattam), *Trichinopoly* (58 I/8; 11° 3' : 78° 30'), garnetiferous schists. W. K., **M**, IV, 270.
- Thom (Thaman), *Karauli* (54 B/15; 26° 26' : 76° 48' 30"), L. Vindhyan breccia. F. R. M., **M**, VII, 60; A. M. H., **M**, XLV, 153 (Pl. xxxv, fig. 1).
- Thonaum, *Vizagapatam* (65 N/2; 18° 39' : 83° 8'), rhodonite. L. L. F., **M**, XXXVII, 141; manganese-ore, 1047.
- Thondaroyapuram (Tandavarayapuram), *Salem* (58 I/10, 11° 35' 30" : 78° 32' 30"), iron-smelting. T. H. H., **R**, XXV, 148.

- Thondaung, *Mandalay* (93 C/5; 21° 56': 96° 22'), Ordovician-Silurian unconformity. T. D. L., **M**, XXXIX, pt. 2, 122, 168, 335 (fig. 5 & Pl. ix); iron-ore, 375.
- Thonde, *Zangskar* (52 C/14; 33° 31' 30": 76° 59'), Triassic beds. F. S., **M**, V, 346.
- Thongwa, *Hanthawaddy* (94 D/5; 16° 57' 30": 96° 17'), earthquakes: Burma, 1912. J. C. B., **M**, XLII, 72; Pegu, 1930. **R**, LXV, 230.
- Thoonagoody, Thoongoody (Tuvagudi), *Trichinopoly* (58 J/14; 10° 44' 30": 78° 49' 30"), lithomarge with laterite. W. K., **M**, IV, 261; porphyritic diorite, 328.
- Thor, *Sirmur* (53 F/5; 30° 48' 30": 77° 17'), Chail and Jutogh overthrusts. G. E. P., **M**, LIII, 25.
- Thoralapadu (Totaravulapadu), *Kistna* (65 D/6; 16° 41': 80° 17'), trap intrusion in gneiss. R. B. F., **R**, XVIII, 19.
- Thrikanushpa, *Kohat* (38 K/15; 33° 16': 70° 55'), old salt mine. A. B. W., **M**, XI, 318.
- Thrombow, *Cutch* (41 E/11; 23° 19' 30": 69° 44'), *Palissya*. O. F., **R**, IX, 33 = Toombo and Trombow.
- Thulagar, *Punch* (43 K/1; 33° 55': 74° 9'), Eocene-Murree overthrust. D. N. W., **M**, LI, 295.
- Thull Ghat, *Thana* (47 E/6; 19° 41': 73° 30'), Deccan trap flows, thickness. W. T. B., **M**, VI, 144.
- Thumari, *Sirmur* (53 F/9; 30° 46': 77° 41'), Mandhali series. G. E. P., **M**, LIII, 39.
- Thumka Gadh, *Almora* (62 B/11; 30° 20': 80° 44'), flexures in Carboniferous-Triassic beds. C. L. G., **M**, XXIII, 188 (fig. 25 & Pl. ix, fig. 2).
- Thuravas, *Idar* (46 E/2; 23° 43': 73° 12'), magnesian rocks. C. S. M., **M**, XLIV, 107 (fig.), 148.
- Thuthuncoorchy (Tachehankurichehi), *Trichinopoly* (58 J/13; 10° 57': 78° 49'), granite. H. F. B., **M**, IV, 31; crystalline limestone, 204.
- Thuthi, *Rewah* (64 E/16; 23° 10': 81° 48'), coal seam. T. W. H. H., **M**, XXI, 245.
- Tiagar Droog (Tyagadurgam), *S. Arcot* (58 M/2; 11° 44': 79° 5'), granitoid gneiss. W. K., **M**, IV, 299.
- Tib, *Sirmur* (53 F/6; 30° 32': 77° 16'), Nahan-Siwalik unconformity. H. B. M., **M**, III, pt. 2, 108 (fig.); **R**, XIV, 173 (figs.).
- Tichak R., *Sibsagar* (83 M/4; 27° 0': 95° 5'), coalfield. H. H. H., **R**, XL, 311 (fig.); E. H. P., **M**, XL, 287.
- Tidemuta Sakan, *Sahween* (94 F/8; 18° 9': 97° 16'), granite boss. E. L. C., **R**, LX, 297, 301.
- Tieh-oh'ang, *Yunnan* (92 O/11; 25° 24': 99° 31'), Red beds. Permian. J. C. B., **R**, XLVII, 238.
- Tien-erh-ching, *Yunnan* (92 O/5; 25° 53': 99° 21' 30"), brine well. J. C. B., **M**, XLVII, 172.
- Tigai, *Chhindwara* (55 J/16; 22° 0' 30": 78° 45'), basal flow, Deccan trap. L. L. F., **R**, XLVII, 91.
- Tigar, *Ladakh* (52 F/10; 34° 37': 77° 37'), alluvial fan. R. L., **M**, XXII, 51 (fig.).
- Tiger Point, *Akyab* (85 E/1; 19° 50': 93° 2'), mud volcano. E. H. P., **R**, LVI, 22.

- Tigohra, *Saugor* (54 P/3; 24° 23' : 79° 11'), Semri-granite boundary. H. B. M., M, II, 34.
- Tigstan, *Ladakh* (43 M/6; 35° 42' : 75° 29'), traces of glaciation. R. L., R, XIV, 47.
- Tigyain, *Katha* (93 A/1; 23° 45' : 96° 9'), earthquake, 1897, sounds. R. D. O., M, XXIX, 194.
- Tikak, *Lakhimpur* (83 M/11; 27° 16' : 95° 43'), coal mine. F. R. M., M, XII, 308; R. R. S., M, XLI, 18 (Pl. iii); allophane. A. L. C., R, LXI, 363.
- Tikar, *Sirmur* (53 F/6; 30° 42' : 77° 30'), Jaunsar overthrust. G. E. P., M, LIII, 35.
- Tikarde, *Bundi* (45 O/11; 25° 29' : 75° 38' 30'), U. Vindhyan, section. A. L. C., R, LX, 172 (fig.).
- Tikari, *Seoni* (55 O/5; 21° 51' : 79° 17' 30'), fault in Deccan trap. R. C. B., R, XLVIII, 213.
- Tikari, *Sirmur* (53 F/6; 30° 42' : 77° 25'), Jaunsar series. G. E. P., M, LIII, 30.
- Tikaria, *Jubbulpore* (64 A/6; 23° 43' 30" : 80° 24'), lithomarge, analysis. C. S. F., M, XLIX, 32; bauxite, 117.
- Tikat, *Rewah* (63 H/11; 24° 28' : 81° 44'), Kaimur-Rohtas junction. P. N. D., M, XXXI, 159.
- Tikera, *Simla* (53 E/8; 31° 4' : 77° 23'), Blaini beds. C. A. M., R, X, 211, 213.
- Tiketari, *Ranchi* (73 E/2; 23° 40' : 85° 3' 30"), Talchir beds, sections. A. J., M, LII, 16.
- Tikha, *Spiti* (52 L/8; 32° 9' : 78° 15'), Tropites limestone. C. D., M, XXXVI, 289.
- Tikhua, *Rewah* (63 H/4; 24° 1' : 81° 13'), Gondwana beds. R. D. O., M, XXXI, 117.
- Tiki, *Rewah* (64 E/5; 23° 56' : 81° 22'), reptilian bones, Maleri stage. O. F., R, XIII, 189; T. W. H. H., R, XIV, 137; R. L., R, XVI, 65; G. C., R, XLVIII, 25; *Mesembrioxylon*. E. H. P., R, LXII, 28.
- Tikria R., *Talcher* (73 G/4; 21° 7' : 85° 2'), alluvial gold. W. T. B., M, I, 88.
- Tikri, *Singhbhum* (73 J/6; 22° 38' : 86° 28'), potstone. V. B., M, XVIII, 129, 149.
- Tikrit, *Iraq* (34° 36' : 43° 43' 30"), Tertiary conglomerate. E. H. P., M, XLVIII, 3.
- Tikuri, *Jubbulpore* (64 A/5; 23° 49' : 80° 23'), kaolin. C. S. F., M, XLIX, 32; bauxite, 124.
- Tilaijhor, *Singhbhum* (73 J/2; 22° 35' 30" : 86° 14' 30"), potstone. V. B., M, XVIII, 148.
- Tilana, *Ajmer* (45 J/15; 26° 19' 30" : 74° 51'), mica. T. H. H., M, XXXIV, 70.
- Tilbani hill, *Manbhum* (73 I/11; 23° 25' : 86° 33' 30"), syenitic gneiss. V. B., M, XVIII, 94.
- Tileng, *N. Shan States* (93 F/13; 22° 52' : 97° 53'), Ordovician fossils. T. D. L., M, XXXIX, pt. 2, 80.
- Tilin, *Pakokku* (84 K/2; 21° 41' 30" : 94° 6'), freshwater beds, U. Tertiary (Maw Gravels). H. H. H., R, XLVII, 32.
- Tilla Mt. *Jhelum* (43 H/5; 32° 51' : 73° 26'), geological structure. A. B. W., R, III, 81 (fig. & Pl. ii); M, XIV, 124 (Pl. xii); E. H. P., R, LXIII, 128; L. L. F., R, LXV, 118.
- Tillar R., *Savantvadi* (48 I/1; 15° 46' : 74° 9'), talcose schist. R. B. F., M, XII, 54.

- Tilling, *Spiti* (53 I/1;  $31^{\circ} 59' : 78^{\circ} 4' 30''$ ), Productus Shales. C. L. G., **R**, XXII, 165.
- Tiloga, *Chamba* (43 P/13;  $32^{\circ} 47' : 76^{\circ} 0'$ ), conglomerate and trap. C. A. M., **R**, XVI, 39; tuffs, petrology. XVIII, 97.
- Timandodi, *Bellary* (57 E/9;  $15^{\circ} 53' : 77^{\circ} 39'$ ), biotite-granite. R. B. F., **M**, XXV, 72.
- Timappangarh, *Sandur* (57 A/12;  $15^{\circ} 8' : 76^{\circ} 33'$ ), riband-jasper. R. B. F., **M**, XXV, 111, 202.
- Timapur, *Bellary* (57 E/9;  $15^{\circ} 48' 30'' : 77^{\circ} 32' 30''$ ), porphyritic hornblende granite. R. B. F., **M**, XXV, 72.
- Timapur, *Bijapur* (56 D/4;  $16^{\circ} 6' : 76^{\circ} 1' 30''$ ), chloritic schist. R. B. F., **M**, XII, 49.
- Timapuram, *Adilabad* (56 N/5;  $18^{\circ} 57' : 79^{\circ} 25'$ ), Sullavai beds. W. K., **M**, XVIII, 232.
- Timbu, *Sikkim* (78 A/3;  $27^{\circ} 26' : 88^{\circ} 4'$ ), lake. P. N. B., **R**, XXIV, 50.
- Timmeroun, *Bhopal* (55 I/12;  $23^{\circ} 4' : 78^{\circ} 44'$ ), *Elephas* in Narbada alluvium. W. T., **M**, II, 291.
- Timmerycota (Tummurukota), *Guntur* (56 P/6;  $16^{\circ} 31' 30'' : 79^{\circ} 29'$ ), conglomerate, Kistna series. W. K., **M**, VIII, 256.
- Timri, *Idar* (45 H/4;  $24^{\circ} 14' 30'' : 73^{\circ} 2'$ ), amphibolite-limestone. C. S. M., **M**, XLIV, 49.
- Tindharia, *Darjeeling* (78 B/5;  $26^{\circ} 51' : 88^{\circ} 19'$ ), coal seam. F. R. M., **M**, XI, 24, 52, 60; **R**, X, 144 (Pl. viii); H. B. M., **R**, XV, 8; R. R. S., **M**, XLI, 36; earthquake, 1897. H. H. H., **M**, XXIX, 282.
- Tindi, *Chamba* (52 D/5;  $32^{\circ} 45' 30'' : 76^{\circ} 26' 30''$ ), Pangi slates, iron-ore. R. L., **R**, XI, 54; **M**, XXII, 246, 335.
- Tindini, *Panna* (63 D/6;  $24^{\circ} 41' : 80^{\circ} 23'$ ), diamond workings. E. V., **R**, XXXIII, 287.
- Tingrat, *Chamba* (52 D/13;  $32^{\circ} 51' : 76^{\circ} 47' 30''$ ), Pangi slate-gneiss boundary. R. L., **R**, XI, 55.
- Tingri, *Tibet* (71 L/10;  $28^{\circ} 35' : 86^{\circ} 38'$ ), Cretaceous syncline. A. M. H., **R**, LIV, 228.
- Tingunnah (Thangana), *Jhansi* (54 L/15;  $24^{\circ} 16' : 78^{\circ} 46' 30''$ ), low-level trap. H. B. M., **M**, II, 77, 85.
- Tinkhera, *Chhindwara* (55 K/14;  $21^{\circ} 32' : 78^{\circ} 48'$ ), Deccan trap boundary. P. N. D., **R**, XXXIII, 222.
- Tinki (Tengkye), *Tibet* (77 D/3;  $28^{\circ} 19' : 88^{\circ} 6'$ ), mica. T. H. H., **M**, XXXIV, 53.
- Tinkura, *Gangpur* (64 N/16;  $22^{\circ} 9' : 83^{\circ} 55'$ ), brecciated quartz. L. L. F., **R**, LXV, 75.
- Tinnevelly, *Madras* (58 H/10;  $8^{\circ} 43' : 77^{\circ} 41'$ ), travertine. R. B. F., **M**, XX, 76.
- Tinpahar, *Santal Parganas* (72 P/9;  $25^{\circ} 0' : 87^{\circ} 44'$ ), earthquake, 1897. E. V., **M**, XXIX, 310 (fig.).
- Tinzeik, *Insein* (94 C/3;  $17^{\circ} 22' : 96^{\circ} 7'$ ), dam-site. E. H. P., **R**, LXII, 38.
- Tioek R., *Sibsagar* (83 M/4;  $27^{\circ} 3' : 95^{\circ} 4'$ ), oil seepages. H. H. H., **R**, XI, 316; E. H. P., **M**, XL, 288=Teok R.

- Tipagarh, *Balaghat* (64 B/8;  $22^{\circ} 1' 30''$  :  $80^{\circ} 29' 30''$ ), bauxite. H. H. H., **R**, XLVII, 38; C. S. F., **M**, XLIX, 136.
- Tipam, *Lakhimpur* (83 M/7;  $27^{\circ} 16' 30''$  :  $95^{\circ} 25'$ ), coal measures, section. F. R. M., **M**, XII, 315.
- Tipan R., *Rewah* (64 E/16;  $23^{\circ} 3'$  :  $81^{\circ} 46'$ ), coal seam. R. R. S., **M**, XLI, 75.
- Tipra, *Pinjaur* (53 B/13;  $30^{\circ} 50'$  :  $76^{\circ} 57'$ ), coal seam. C. L. G., **R**, XXV, 7; R. R. S., **M**, XLI, 112.
- Tipri (Tikri), *Kulu* (53 E/1;  $31^{\circ} 57'$  :  $77^{\circ} 10' 30''$ ), Kangra earthquake, 1905, effect on spring. C. S. M., **R**, XXXII, 288; **M**, XXXVIII, 62 (Pl. xiv, fig. 1).
- Tiptur, *Tumkur* (57 C/7;  $13^{\circ} 15'$  :  $76^{\circ} 29'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1152.
- Tirandur (Tyaranduru), *Shimoga* (48 O/6;  $13^{\circ} 43' 30''$  :  $75^{\circ} 24'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1144.
- Tirap R., *Lakhimpur* (83 M/15;  $27^{\circ} 20'$  :  $95^{\circ} 52'$ ), coal seams. F. R. M., **M**, XII, 305; R. R. S., **M**, XLI, 17=Terap R.
- Tirhowan, *Bandu* (63 C/16;  $25^{\circ} 12'$  :  $80^{\circ} 54'$ ), L. Vindhyan limestone and breccia. H. B. M., **M**, II, 13.
- Tiri, *Kohat* (38 O/3;  $33^{\circ} 18'$  :  $71^{\circ} 6'$ ), Tertiary beds, section. A. B. W., **M**, XI, 221 (Pl. v, fig. 24).
- Tiri (Tehri), *United Provs.* (53 J/7;  $30^{\circ} 23'$  :  $78^{\circ} 29'$ ), infra-Krol-Blaini beds. R. D. O., **R**, XVI, 163.
- Tirich Mir, *Chitral* (37 P/15;  $36^{\circ} 15' 30''$  :  $71^{\circ} 50' 30''$ ), granite. E. H. P., **R**, LV, 38.
- Tirildih, *Saraikela* (73 J/1;  $22^{\circ} 47' 30''$  :  $86^{\circ} 1' 30''$ ), kyanite-rock. J. A. D., **M**, LII, 228.
- Tiring, *Mayurbhanj* (73 J/2;  $22^{\circ} 31'$  :  $86^{\circ} 4'$ ), mica-pegmatite. P. N. B., **R**, XXXI, 171=Tereng.
- Tirivulloy, *Malabar* (58 B/9;  $10^{\circ} 45' 30''$  :  $76^{\circ} 37'$ ), brick clay. P. L., **M**, XXIV, 238.
- Tirkornum, *Pudukottai* (58 J/15;  $10^{\circ} 23'$  :  $78^{\circ} 48'$ ), banded granite-gneiss. R. B. F., **R**, XII, 144.
- Tirnavalour (Tiruvananallur), *S. Arcot* (58 M/5;  $11^{\circ} 51' 30''$  :  $79^{\circ} 22'$ ), jadestone (?). T. H. H., **M**, XXX, 151.
- Tirppeir, (Tiruppeyar), *S. Arcot* (58 M/2;  $11^{\circ} 39'$  :  $79^{\circ} 12'$ ), tor of granitoid gneiss. W. K., **M**, IV, 303 (fig.).
- Tirpul, *Afghanistan* (29 F/6;  $34^{\circ} 36'$  :  $61^{\circ} 15'$ ), Siwalik beds. C. L. G., **R**, XVIII, 63.
- Tirrupur, *Coimbatore* (58 E/8;  $11^{\circ} 6'$  :  $77^{\circ} 20'$ ), pyroxene-amphibolite, petrology. T. H. H., **M**, XXVIII, 169; *lit-par-lit* injection in gneiss, 184, 223 (Pls. ix, x).
- Tirth, *Gulbarga* (56 D/7;  $16^{\circ} 23'$  :  $76^{\circ} 26'$ ), flagstone, Bhima series. R. B. F., **M**, XII, 143; purple limestone, 154.
- Tiru R., *Naga Hills* (83 J/13;  $26^{\circ} 52'$  :  $94^{\circ} 54'$ ), coal and petroleum. F. R. M., **M**, XII, 291, 332, 358; R. R. S., **R**, XXXIV, 215 (Pl. xxvi); E. H. P., **M**, XI, 287, limestone nodules in coal, analysis. F. R. M., **M**, XII, 362.
- Tiruchendur, *Tinnevely* (58 L/3;  $8^{\circ} 29' 30''$  :  $78^{\circ} 7'$ ), sand dunes. R. B. F., **M**, XX, 97.
- Tirukia, *Sibsagar* (83 M/8;  $27^{\circ} 7'$  :  $95^{\circ} 19'$ ), coal seams. R. R. S., **R**, XXXIV, 213.



- Tirukovilur, *S. Arcot* (58 M/1;  $11^{\circ} 58' : 79^{\circ} 12'$ ), granitoid gneiss. W. K., **M**, IV, 299.
- Tirukurungudi, *Tinnevely* (58 H/11;  $8^{\circ} 26' : 77^{\circ} 34'$ ), banded granite-gneiss. R. B. F., **M**, XX, 30.
- Tirumal, *Madura* (58 K/2;  $9^{\circ} 43' : 78^{\circ} 3'$ ), crystalline limestone. R. B. F., **M**, XX, 19, 101.
- Tirumangalam, *Madura* (58 G/13;  $9^{\circ} 49' : 77^{\circ} 59'$ ), granitoid gneiss. R. B. F., **M**, XX, 11.
- Tirumanur, *Salem* (58 I/6;  $11^{\circ} 34' : 78^{\circ} 20'$ ), iron-smelting. T. H. H., **R**, XXV, 148.
- Tirumungalum, *S. Arcot* (58 M/9;  $11^{\circ} 58' 30'' : 79^{\circ} 39'$ ), Cuddalore sandstones. H. F. B., **M**, IV, 172.
- Tirupattur, *N. Arcot* (57 L/11;  $12^{\circ} 29' : 78^{\circ} 34'$ ), hornblendic granite and gneiss. E. H. P., **R**, LXII, 149.
- Tirusitambalam, *S. Arcot* (58 M/13;  $11^{\circ} 59' : 79^{\circ} 46' 30''$ ), Cretaceous beds. H. W., **R**, XXVIII, 19.
- Tiruvakary, *S. Arcot* (57 P/12;  $12^{\circ} 1' 30'' : 79^{\circ} 39' 30''$ ), Cuddalore grits, fossil wood. W. K., **M**, IV, 257=Trivictory.
- Tiruvalur, *Tanjore* (58 N/9;  $10^{\circ} 47' : 79^{\circ} 38'$ ), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 115.
- Tiruvannamalai, *N. Arcot* (57 P/4;  $12^{\circ} 14' : 79^{\circ} 4'$ ), charnockite. E. H. P., **R**, LXI, 123.
- Tirwala, *Alwar* (54 A/9;  $27^{\circ} 50' 30'' : 76^{\circ} 42'$ ), foliated granite, Delhi system. A. M. H., **M**, XLV, 98.
- Tisita Sakan, *Salween* (94 F/3;  $18^{\circ} 29' : 97^{\circ} 5'$ ), Plateau Limestone. E. L. C., **R**, LX, 298.
- Tisri, *Hazaribagh* (72 L/2;  $24^{\circ} 35' : 86^{\circ} 4'$ ), mica mines. T. H. H., **M**, XXXIV, 45.
- Tissianvilai, *Tinnevely* (58 H/15;  $8^{\circ} 20' : 77^{\circ} 52'$ ), sub-recent marine limestone. R. B. F., **M**, XX, 62, 103.
- Titro, *Palamau* (64 M/13;  $23^{\circ} 49' : 84^{\circ} 0'$ ), Barakar beds, section. V. B., **M**, XV, 99.
- Titherpur (Tatarpur), *Alwar* (54 A/9;  $27^{\circ} 47' : 76^{\circ} 31'$ ), amphibolite. A. M. H., **M**, XLV, 39; pegmatite, 99.
- Tithwal, *Kashmir* (43 F/15;  $34^{\circ} 24' : 73^{\circ} 46' 30''$ ), Tanawal beds. D. N. W., **R**, LXV, 205=Titwal.
- Titi R., *Jalpaiguri* (78 F/5;  $26^{\circ} 46' : 89^{\circ} 16'$ ), Baxa series, section. F. R. M., **M**, XI, 35; dolomite, analysis, 83.
- Titoi, *Idar* (46 E/6;  $23^{\circ} 36' 30'' : 73^{\circ} 20'$ ), quartz veins. C. S. M., **M**, XLIV, 130.
- Titripani, *Rewah* (64 E/16;  $23^{\circ} 9' : 81^{\circ} 52' 30''$ ), coal seam. T. W. H. H., **M**, XXI, 245.
- Tittabwa, *Thayelmyo* (85 M/6;  $19^{\circ} 31' : 95^{\circ} 25'$ ), Tertiary gastropoda. E. V., **R**, LI, 340; LIII, 84, 130; **M**, L, 199.
- Tituri, *Bankura* (73 I/14;  $23^{\circ} 34' : 86^{\circ} 54'$ ), magnetic iron-ore. W. T. B., **M**, III, 193; T. W. H. H., **R**, VII, 25.
- Titvali, *N. Kanara* (48 I/7;  $15^{\circ} 19' 30'' : 74^{\circ} 25'$ ), manganese-ore. E. H. P., **R**, LXI, 64.

- Titwal, *Kashmir* (43 F/15; 34° 24' : 73° 46' 30"), Palæozoic rocks, boundary. R. L., R, XV, 15=Tithwal.
- Tiuni, *Dehra Dun* (53 F/13; 30° 56' 30" : 77° 51'), Tons R. gorge. H. B. M., M, III, pt. 2, 158 (Pl. iii).
- Tiutar (Tiontar), *Dehra Dun* (53 F/13; 30° 53' : 77° 51' 30"), Chakrata beds. C. S. M., R, XX, 27.
- To Twe (Tuttwe), *Mergui* (96 I/12; 11° 4' : 98° 44'), tin-ore. T. H. H., R, XXXVII, 40.
- Tobar (Tobra), *Jhelum* (43 D/14; 32° 40' : 72° 59' 30"), *Conularia* bed. R. D. O., R, XIX, 128.
- Tochi, *Waziristan* (38 L/1; 32° 56' : 70° 9'), Siwalik beds. F. H. S., R, XXVIII, 107.
- Toda, *Bonai* (73 G/1; 21° 59' : 85° 11'), hematite-quartzite, Iron Ore series. E. H. P., R, LXI, 95.
- Toda, *Jaipur* (45 M/14; 27° 38' 30" : 75° 55'), hematitic quartzite, Ajabgarh series. A. M. H., R, LIV, 373.
- Toda Bhim, *Jaipur* (54 B/13; 26° 55' : 76° 49'), anticline, Alwar series. A. M. H., R, XLVIII, 193, 195.
- Toda Rai Singh, *Jaipur* (45 N/8; 26° 1' 30" : 75° 29'), garnet mines. A. M. H., R, LIV, 389; beryl, 390.
- Todakhail R., *Rajpipla* (46 G/13; 21° 48' : 73° 47'), marble. P. N. B., M, XXXVII, 186.
- Todgarh, *Merwara* (45 G/14; 25° 41' 30" : 73° 58'), granite intrusions. C. A. H., R, XIV, 284.
- Todi, *Alwar* (54 A/12; 27° 11' : 76° 32'), shore-line, Delhi system. A. M. H., M, XLV, 26, 45; marble, 61.
- Todiha, *Bijapur* (47 P/11; 16° 25' : 75° 35'), Intertrappean fossils. R. B. F., M, XII, 193.
- Todi-Judawas (Dodi), *Alwar* (54 A/7; 27° 21' : 76° 19'), hornstone breccia. A. M. H., M, XLV, 69.
- Toebawdo, *Salween* (94 F/3; 18° 28' : 97° 10'), Plateau Limestone. E. L. C., R, LX, 298.
- Togamullay, *Trichinopoly* (58 J/6; 10° 43' 30" : 78° 25'), hornblende-schist inclusions in granite. W. K., M, IV, 341.
- Togh, *Kohat* (38 K/15; 33° 26' : 70° 59'), Eocene clays. A. B. W., R, XII, 108.
- Tohogaon, *Chanda* (56 M/6; 19° 40' : 79° 29' 30"), fossil trees, ? Lameta. T. W. H. H., M, XIII, 79.
- Toira, *Singbhum* (73 F/10; 22° 35' : 85° 31'), boulder in tuffs. J. A. D., M, LIV, 63 (fig.).
- Tokido, *Salween* (94 F/3; 18° 22' : 97° 11' 30"), felspar-porphry. E. L. C., R, LX, 301.
- Tola, *Almora* (62 B/3; 30° 20' : 80° 13'), pyrites. T. W. H. H., R, XI, 184.
- Tola, *Jubbulpore* (64 A/6; 23° 32' : 80° 15'), Gosalpur quartzites. P. N. B., R, XXII, 219.
- Tolanmatti, *Bijapur* (47 P/11; 16° 18' : 75° 40'), gravel beds, stone implements. R. B. F., M, XII, 242.
- Toleh, *Palamau* (64 M/13; 23° 49' : 83° 59'), coal seam. V. B., M, XV, 99; R. R. S., M, XII, 59.

- Toli, *Garhwal* (53 J/8; 30° 5' : 78° 21'), Eocene-Mandhali boundary. R. D. O., **R**, XVII, 162.
- Tolum (Toll), *S. Arcot* (58 M/11; 11° 25' : 79° 41' 30'), sections of alluvium. H. F. B., **M**, IV, 182; peat-bed. W. K., **M**, IV, 253.
- Tomta, *Chanda* (56 M/10; 19° 33' : 79° 33' 30'), Kamthi beds, plants. W. K., **M**, XVIII, 253.
- Tonashagiri, *Bellary* (57 B/9; 14° 59' : 76° 38'), manganese-ore. R. B. F., **M**, XXV, 125, 195; L. L. F., **M**, XXXVII, 993.
- Tonbo, *Mandalay* (93 C/1; 21° 53' : 96° 13'), Fusulina limestone. P. N. D., **A. R.**, 1900, 101; T. D. L., **M**, XXXIX, pt. 2, 196, 256, 331.
- Tonbo, *Sagaing* (84 N/16; 22° 7' : 95° 59'), crystalline limestone. G. E. G., **A. R.**, 1898, 52; E. H. P., **R**, LXII, 121.
- Tonbyaw, *Mergui* (95 L/15; 12° 17' : 98° 52'), tin-ore. T. W. H. H., **R**, XXII, 192.
- Tondala, *Chanda* (65 B/1; 18° 51' : 80° 0' 30'), Kota beds. W. K., **R**, XIII, 16, 18.
- Tondaung, *Henzada* (85 N/4; 18° 13' : 95° 10'), limestone, Sitsayan stage. M. S., **R**, XLI, 248.
- Tondriapar, *Bhandara* (55 O/16; 21° 1' : 79° 49' 30'), muscovite-pegmatite. S. K. C., **R**, LXV, 295.
- Tong, *Karachi* (35 O/9; 25° 46' : 67° 34'), Nari beds, hot spring. W. T. B., **M**, XVII, 171; T. O., **M**, XIX, 111; Gaj series, mollusca. E. V., **M**, L, 351, 377, 388, 432.
- Tong-ang, *N. Sham States* (93 F/7; 22° 17' 30" : 97° 21'), Fusulina limestone. T. D. L., **M**, XXXIX, pt. 2, 258; Jurassic fossils, 307 (note).
- Tong-ch'uan, *Yunnan* (101 C/10; 25° 40' : 100° 34'), coal-seams. J. C. B., **M**, XLVII, 67; **R**, LIV, 81.
- Tonghoo, *Burma* (94 B/5; 18° 56' : 96° 26'), laterite. W. T., **M**, X, 265; manganese-ore, analysis, 267=*Taungu and Toungoo*.
- Tonglu, *Darjeeling* (78 A/4; 27° 2' : 88° 5'), geodetic station. R. D. O., **M**, XLII, 250, 254.
- Tong-shan, *Yunnan* (92 P/1; 24° 53' 30" : 99° 10'), iron-smelting. J. C. B., **M**, XLVII, 94.
- Toniturei point, *Ramnad* (58 O/3; 9° 17' : 79° 10'), marine terrace. J. W., **R**, XXIII, 117.
- Tonk, *Rajputana* (45 N/16; 26° 10' : 75° 47'), Aravalli rocks. A. M. H., **R**, LIV, 357; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 242; meteorite. J. C. B., **M**, XLIII, 275.
- Tonkra, *Kishangarh* (45 J/14; 26° 39' : 74° 53'), dolomitic marble. T. H. H., **R**, XXXIX, 258.
- Tons R. falls, *Rewah* (63 H/5; 24° 47' : 81° 16'), Bhandar beds. H. B. M., **M**, II, 54; Ganurgarh shales. F. R. M., **M**, VII, 81.
- Tonse R., *Sirmur* (53 F/14; 30° 35' : 77° 45'), gorge. H. B. M., **M**, III, pt. 2, 158 (Pl. iii); lead-ore 179.
- Tontapur, *Raichur* (56 H/8; 16° 7' : 77° 25'), granite veins in gneiss. R. B. F., **M**, XII, 65.
- Toobed (Tubed), *Palamau* (73 A/9; 23° 49' : 84° 34' 30'), Barakar beds, section. V. B., **M**, XV, 68; Raniganj beds, 83.

- Tooloodoor Tuckuri, *Trichinopoly* (58 I/15; 11° 24' 30" : 78° 59' 30"), trap dyke. W. K., **M**, IV, 329.
- Toombo (Trambau), *Cutch* (41 E/11; 23° 19' 30" : 69° 44'), coal seam. W. T. B., **M**, VI, 23=Thrombow and Trombow.
- Toonooconda (Tunakonda), *Cuddapah* (57 O/5; 13° 56' : 79° 20'), Pullampet limestone. W. K., **M**, VIII, 205.
- Toorun Mul, *W. Khandesh* (46 K/5; 21° 53' : 74° 28'), supposed volcanic crater. W. T. B., **M**, VI, 269.
- Topal, *Bastar* (64 H/4; 20° 8' 30" : 81° 9'), iron-ore. P. N. B., **A. R.**, 1899, 38.
- Topchanchi, *Manbhum* (73 I/1; 23° 54' : 86° 12'), dam-site. H. H. H., **R**, XLVIII, 14.
- Topchi, *Afghanistan* (33 N/13; 34° 49' : 67° 56'), Fusulina limestone, Saighan and Red Grit series. H. H. H., **M**, XXXIX, 53.
- Tope Hill, *Hazara* (43 F/8; 34° 7' 30" : 73° 19'), geological structure. C. S. M., **M**, XXVI, 158 (Pl. iii, fig. 1).
- Topi, *Sirmur* (53 F/5; 30° 53' : 77° 23'), Jutogh series. G. E. P., **M**, LIII, 54.
- Toposi, *Burdwan* (73 M/2; 23° 40' : 87° 8'), coal seam. R. R. S., **M**, XLI, 46 =Tapassi.
- Topuldodi, *Raichur* (56 D/16; 16° 9' 30" : 76° 47' 30"), gold mine. R. B. F., **R**, XXII, 35; T. H. H., **R**, XXXIX, 90.
- Tor Sapper, *Khyber* (38 N/4; 34° 10' : 71° 11'), graphitic schist. C. L. G., **R**, XXV, 90.
- Toranagal, *Bellary* (57 A/12; 15° 11' : 76° 41'), crystalline limestone in trap flow. R. B. F., **R**, XXII, 27; porphyry. **M**, XXV, 51, 200.
- Torang, *Ranchi* (73 F/9; 22° 55' 30" : 85° 33'), silicified epidiorite. J. A. D., **M**, LIV, 83.
- Torangatti, *Kolhapur* (48 M/1; 15° 58' : 75° 7'), flooring slabs. H. C. J., **R**, LIV, 430.
- Torani, *Buner* (43 B/14; 34° 33' 30" : 72° 53'), iron-ore. C. S. M., **M**, XXVI, 257.
- Torda, *Idar* (46 E/5; 23° 48' : 73° 18'), Delhi quartzite. C. S. M., **M**, XLIV, 94.
- Torgal, *Kolhapur* (48 M/1; 15° 56' 30" : 75° 13'), L. Kaladgi beds. R. B. F., **M**, XII, 112.
- Toriore (Turaiyur), *Trichinopoly* (58 I/12; 11° 9' : 78° 36'), 'red soil', thickness. W. K., **M**, IV, 347.
- Torkhan, *Sibi* (39 B/4; 30° 12' : 68° 3'), Jurassic-Tertiary beds. F. N., **A. R.**, 1899, 50.
- Torne, *Abor Hills* (82 P/4; 28° 2' : 95° 6'), limestone boulders. J. C. B., **R**, XLII, 240.
- Torpa, *Ranchi* (73 F/1; 22° 56' : 85° 5' 30"), hybrid gneiss. J. A. D., **M**, LIV, 124 (Pl. vi, fig. 2); epidiorite, 127.
- Torramangalam (Turaimangalam), *Trichinopoly* (58 I/16; 11° 13' 30" : 78° 53' 30"), cotton soil, formation. J. W., **R**, XXIII, 113.
- Toraa, *Cooch Behar* (78 F/12; 26° 13' : 89° 30'), earthquake, 1897, fissures. H. H. H., **M**, XXIX, 287.
- Tosha, *Ladakh* (43 M/10; 35° 44' : 75° 40'), hot springs. R. L., **R**, XIV, 54; **M**, XXII, 43; T. O., **M**, XIX, 125.

- Toshmaidan, *Kashmir* (43 K/5; 33° 55' : 74° 29'), Triassic limestone. C. S. M., R., XLI, 129; D. N. W., M, LI, 249.
- Tota Gali, *Punch* (43 K/6; 33° 44' 30" : 74° 18'), selenite. D. N. W., M, LI, 260, 305.
- Tothral (Tatral), *Jhelum* (43 D/14; 32° 43' 30" : 72° 59'), boring for coal. H. H. H., R., XLII, 73.
- Totium (Tottiyam), *Trichinopoly* (58 J/5; 10° 59' : 78° 20'), metamorphic rocks, thickness. W. K., M, IV, 185.
- Toung Byuk, *Mergui* (95 K/11; 13° 24' : 98° 42'), hot spring. T. O., M, XIX, 153.
- Toungboji, *Prome* (85 N/1; 18° 46' : 95° 2'), oil wells. W. T., R., V, 120; M, X, 349=Taungbogyi.
- Toung-ngo, *Tharrawaddy* (85 N/14; 18° 31' : 95° 51'), brine and gas spring. W. T., R., VI, 68.
- Toungoo, *Burma* (94 B/5; 18° 56' : 96° 26'), earthquakes: Assam, 1897. R. D. O., M, XXIX, 51; Burma, 1912. J. C. B., M, XLII, 66, 122=Taungu and Tonghoo.
- Toungwayn (? Mayan Taung), *Amherst* (94 H/15; 16° 17' : 97° 45'), antimony-ore. W. R. Criper, R., XVIII, 152.
- T'ou-tao-shui, *Yunnan* (101 D/3; 24° 18' : 100° 3'), Kao-liang beds. J. C. B., R., LIV, 299.
- Tozgi, *Chagai* (30 K/8; 29° 3' : 62° 19'), volcanic rocks, flysch series, section. E. V., M, XXXI, 250 (Pl. viii, fig. 1); travertine terraces, 251, 286.
- Tragbal, *Kashmir* (43 J/11; 34° 29' : 74° 38'), Panjal traps and slates. R. L., R., XII, 23.
- Trak, *Karachi* (35 O/12; 25° 12' : 67° 41' 30"), Nari and Gaj beds. W. T. B., M, XVII, 160; *Provelates grandis*. F. N., R., XXVII, 107 (Pl. xxix, figs. 5, 6); Gaj and Nari mollusca. E. V., M, L, 177, 183, 422.
- Trakse, *Spiti* (52 H/11; 32° 27' : 77° 42'), Ordovician beds. H. H. H., M, XXXVI, 29; Devonian, 34; Carboniferous, 39, 41, 44.
- Tranda, *Bashahr* (53 E/14; 31° 33' : 77° 54'), biotite-schists, iron-ore. F. S., M, V, 11=Taranda.
- Tranquebar, *Tanjore* (58 M/16; 11° 2' : 79° 51'), sand dunes. W. K., M, IV, 250; marine erosion, 362 (Pl. iv).
- Trapp, *Attock* (38 O/16; 33° 3' : 71° 54'), 'erratics'. A. B. W., R., X, 123; M, XIV, 117.
- Treasury Hill, *Shimoga* (48 O/13; 13° 55' : 75° 52'), manganese-ore. L. L. F., M, XXXVII, 1147.
- Tredaban, *Punch* (43 K/1; 33° 57' : 74° 14'), Dogra Slates. D. N. W., M, LI, 228.
- Tredian, *Mianwali* (38 P/9; 32° 47' : 71° 42'), geology of hills. A. B. W., M, XIV, 257 (Pls. xxix-xxx).
- Trekanna, *Punch* (43 K/1; 33° 50' : 74° 13'), Triassic unconformity. D. N. W., M, LI, 249.
- Tremo La, *Tibet* (78 E/2; 27° 42' : 89° 13'), Jurassic beds. H. H. H., M, XXXVI, 148.
- Tresulmare (Sirsanambedu), *Chittoor* (57 O/13; 13° 51' 30" : 79° 52'), iron-ore beds. W. K., M, XVI, 142.

- Tret, *Rawalpindi* (43 G/5; 33° 50' : 73° 17' 30"), Eocene-Murree boundary. D. N. W., **M**, LI, 350.
- Trevellary (Tiruvallarai), *Trichinopoly* (58 J/9; 10° 57' : 78° 40'), ornamental granite. W. K., **M**, IV, 336.
- Trichapoor (Tiruchapur), *Trichinopoly* (58 J/5; 10° 53' : 78° 30'), felspar crystals. W. K., **M**, IV, 336.
- Trichinopoly, *Madras* (58 J/9; 10° 49' : 78° 42'), lateritic conglomerate. W. K., **M**, IV, 263.
- Trigamma (Trahagam), *Kashmir* (43 J/2; 34° 31' : 74° 10'), limestone. R. L., **R**, XI, 49; XIV, 30; XV, 15; **M**, XXII, 142; horizon. H. H. H., **R**, XLIII, 37.
- Trikh Kohnr Algad, *Waziristan* (38 H/14; 32° 31' : 69° 47'), glacial boulders (?). M. S., **R**, LIV, 97.
- Triloknath, *Chamba* (52 D/10; 32° 41' : 76° 42'), Panjal beds, passage into gneiss. R. L., **M**, XXII, 248, 302.
- Trimiem (Tirumayam), *Pudukkottai* (58 J/16; 10° 15' : 78° 45'), granite-gneiss. R. B. F., **R**, XII, 145, 147.
- Tripassore (Tirupachur), *Chingleput* (57 O/16; 13° 8' : 79° 52' 30"), lateritic conglomerate. R. B. F., **M**, X, 32.
- Tripati, *Kistna* (65 H/5; 16° 58' : 81° 15'), Raghavapuram shales, section. W. K., **M**, XVI, 222; U. Gondwana sandstones, 224=Tripetty.
- Tripatoor (Tiruppattur), *Trichinopoly* (58 I/16; 11° 2' : 78° 46' 30"), Utatur beds, coral-reef limestone. H. F. B., **M**, IV, 53, 79.
- Tripatur, *Ramnad* (58 J/12; 10° 7' : 78° 36'), lateritic gravel. R. B. F., **M**, XX, 47.
- Tripetty (Tirupati), *Chittoor* (57 O/6; 13° 38' : 79° 25'), Cuddapah scarp. W. K., **M**, VIII, 20 (Pl. i, fig. 1).
- Tripetty, *Kistna* (65 H/5; 16° 58' : 81° 15'), U. Gondwana sandstones. W. K., **R**, X, 57=Tripati.
- Tripnagad (Tiruppanankadu), *N. Arcot* (57 P/9; 12° 48' : 79° 37'), U. Gondwana outlier. R. B. F., **R**, XII, 202.
- Tripunguly (Tiruppangali), *Trichinopoly* (58 J/9; 10° 56' : 78° 38' 30"), travertine with magnesite. W. K., **M**, IV, 321.
- Trivadur, *Madura* (58 K/5; 9° 57' : 78° 19'), granite tors. R. B. F., **R**, XII, 145; **M**, XX, 32.
- Trivandipuram (Tiruvendipuram), *S. Arcot* (58 M/10; 11° 45' : 79° 42' 30"), Cuddalore sandstones. H. F. B., **M**, IV, 172; ochre, 214.
- Trivatur, *N. Arcot* (57 P/10; 12° 39' : 79° 32'), U. Gondwana beds. R. B. F., **R**, XII, 203.
- Trivellore (Tiruvallur), *Chingleput* (57 O/16; 13° 8' 30" : 79° 54' 30"), lateritic conglomerate. R. B. F., **M**, X, 32.
- Trivictory, *S. Arcot* (57 P/12; 12° 1' 30" : 79° 39' 30"), Cuddalore sandstones, fossil wood. H. F. B., **M**, IV, 11, 24, 174=Tiruvakary.
- Trölung, *Tibet* (77 K/14; 29° 40' : 90° 58'), granite and Cretaceous beds. H. H. H., **M**, XXXVI, 169; serpentine, 179.
- Trombow (Trambau), *Cutch* (41 E/11; 23° 19' 30" : 69° 44'), coal seam. A. B. W., **M**, IX, 86, 184 (fig.); R. R. S., **M**, XLI, 6, 61=Thrombow and Toombo.

- Truchigeri, *Bijapur* (47 P/12; 16° 11' : 75° 33' 30"), L. Kaladgi shales. R. B. F., **M**, XII, 127.
- Trummo (Tramau), *Cutch* (41 A/15; 23° 20' : 68° 50'), Tertiary beds, fossils. A. B. W., **M**, IX, 271.
- Tsalu (Chalu), *Tibet* (77 H/8; 28° 14' : 89° 24'), gorgo in Jurassic slates. H. H. H., **M**, XXXVI, 132; Jurassic ammonite, 158.
- Tsane (Sane), *Ramri I.* (85 E/12; 19° 13' : 93° 44'), limestone. F. R. M., **R**, XI, 222; E. H. P., **M**, XL, 182.
- Tsang Chok La, *Hundes* (53 M/3; 31° 20' : 79° 13'), Trias. C. L. G., **M**, XXIII, 105 (Pl. xi); Muschelkalk fossils. C. D., **M**, XXXVI, 268.
- Tsangpo, *Tibet* (77 K/S. W.; 29° 13' : 90° 0'), catchment area. H. H. H., **M**, XXXVI, 124; course, 127; igneous rocks, 178-184; gold, 185.
- Tsarap valley, *Ladakh* (52 H/9; 32° 52' : 77° 45'), Triassic rocks. F. S., **M**, V, 342; R. L., **R**, XLII, 51; **M**, XXII, 171; C. D., **M**, XXXVI, 268.
- Tsechen, *Tibet* (77 H/9; 28° 56' : 89° 33'), altered diorite. H. H. H., **M**, XXXVI, 178.
- Tsetama (Sethama), *Ramri I.* (85 F/13; 18° 57' 30" : 93° 53' 30"), coal seams. F. R. M., **R**, XI, 208; E. H. P., **M**, XL, 182; R. R. S., **M**, XLI, 67.
- Tshissigaon, *Spiti* (52 L/3; 32° 16' : 78° 4'), Chikkim limestone. F. S., **M**, V, 117.
- Tsinbok (Sinbok), *Ramri I.* (85 E/11; 19° 17' : 93° 35'), limestone. F. R. M., **R**, XI, 221.
- T'sin-men-k'ou, *Yunnan* (93 M/9; 23° 50' : 99° 39'), Plateau Limestone. J. C. B., **R**, LIV, 302.
- Tsipri range, *Tibet* (71 L/14; 28° 39' : 86° 52'), Cretaceous-Eocene section. A. M. H., **R**, LIV, 225.
- Tsi-tien, *Yunnan* (101 L/13; 24° 58' : 102° 57'), M. Carboniferous fossils. J. C. B., **R**, XLIV, 106; Pleistocene beds with lignite, 115.
- Tso Kyagar, *Ladakh* (52 K/8; 33° 6' : 78° 18'), garnetiferous amphibolite. H. H. H., **M**, XXXVI, 100; soundings in lake. D. G. O., **R**, XLII, 127—Gyagar lake.
- Tso Lhamo, *Sikkim* (77 D/16; 28° 1' : 88° 47'), lake. H. H. H., **M**, XXXVI, 134; Jurassic limestone, 149, 156.
- Tso Modretung (Tsomo Tretung), *Tibet* (77 D/S. W.; 28° 25' : 88° 15'), lake. H. H. H., **M**, XXXVI, 131.
- Tsomoriri, *Ladakh* (52 L/5; 32° 55' : 78° 20'), metamorphic rocks. F. S., **M**, V, 126; R. D. O., **R**, XXI, 153; H. H. H., **A. R.**, 1900, 197; **M**, XXXVI, 94; hot springs. R. L., **M**, XXII, 44; T. O., **M**, XIX, 127; soundings in lake. D. G. O., **R**, XLII, 128.
- Tsonga, *Tibet* (71 P/6; 28° 35' : 87° 24'), Cretaceous syncline. A. M. H., **R**, LIV, 228.
- Tsotu, *Ladakh* (52 J/15; 34° 17' : 78° 47'), alluvial fan. R. L., **M**, XXII, 54 (fig.).
- Tsultak, *Ladakh* (52 F/16; 34° 4' : 78° 0'), depth of lake. D. G. O., **R**, XLII, 132.
- Tsuntang, *Sikkim* (78 A/10; 27° 36' 30" : 88° 39'), crystalline limestone. H. H. H., **M**, XXXVI, 139; graphite. T. H. H., **R**, XXXIX, 98=Chungtang.
- Tuan-chia-chai, *Yunnan* (92 L/14; 24° 39' : 98° 46' 30'), granite intrusive in mica-schist. J. C. B., **R**, XLVII, 250.

- Tubak, *Thayetmyo* (85 M/2;  $19^{\circ} 44' 30''$  :  $95^{\circ} 8'$ ), Oligocene Echinoidea. E. V., R, LIV, 413.
- Tui, *Punch Mahals* (46 F/9;  $22^{\circ} 48'$  :  $73^{\circ} 30'$ ), hot springs. T. O., M, XIX, 134.
- Tui pass, *Chitral* (42 H/2;  $36^{\circ} 38'$  :  $73^{\circ} 6'$ ), crystalline limestone. H. H. H., R, XLV, 289.
- Tuia, *Singhbhum* (73 F/10;  $22^{\circ} 36' 30''$  :  $85^{\circ} 39'$ ), folding in Iron Ore shales. J. A. D., M, LIV, 20 (figs.); granite veins, 129.
- Tuihassa, *Singhbhum* (73 F/5;  $22^{\circ} 47'$  :  $85^{\circ} 20'$ ), staurolite. J. A. D., M, LIV, 45.
- Tuinidih, *Raigarh* (64 N/4;  $22^{\circ} 6'$  :  $83^{\circ} 6'$ ), borings for coal. R. R. S., M, XLI, 85=Tuinidih.
- Tuk Muk, *Thana* (47 A/14;  $19^{\circ} 34'$  :  $72^{\circ} 56'$ ), hot spring. T. O., M, XIX, 108.
- Tukkani, *Sikkim* (78 A/8;  $27^{\circ} 8'$  :  $88^{\circ} 22' 30''$ ), copper mines. P. N. B., R, XXIV, 227.
- Tuktung, *Almora* (62 B/11;  $30^{\circ} 15'$  :  $80^{\circ} 33'$ ), granite veins in Haimantas. C. L. G., M, XXIII, 44 (fig.).
- Tulbula, *Palamau* (72 D/4;  $24^{\circ} 14' 30''$  :  $84^{\circ} 1' 30''$ ), graphite. L. L. F., R, LXV, 50.
- Tulihalli, *Bellary* (57 B/2;  $14^{\circ} 41' 30''$  :  $76^{\circ} 14'$ ), Dharwar argillites. J. M. M., R, XXXIV, 110.
- Tullamullay (Talamalai), *Salem* (58 I/8;  $11^{\circ} 5'$  :  $78^{\circ} 19'$ ), iron-ore beds. W. K., M, IV, 284; bedded gneiss, 307.
- Tulodhee, *Chanda* (56 M/10;  $19^{\circ} 39' 30''$  :  $79^{\circ} 44'$ ), hornblende-augite-norite, charnockite series. K. H., R, LV, 256.
- Tulni, *Nander* (56 F/9;  $18^{\circ} 47' 30''$  :  $77^{\circ} 37'$ ), calcified gneiss. K. H., R, XLIX, 220.
- Tulsi-sham, *Kathiawar* (41 O/4;  $21^{\circ} 3'$  :  $71^{\circ} 1'$ ), hot spring. T. O., M, XIX, 102.
- Tulung, *Tibet* (71 L/3;  $28^{\circ} 26'$  :  $86^{\circ} 9'$ ), Permo-Triassic limestone. A. M. H., R, LIV, 232.
- Tumati, *Bellary* (57 A/16;  $15^{\circ} 6'$  :  $76^{\circ} 46' 30''$ ), Dharwar beds, sections. R. B. F., M, XXV, 133.
- Tumb Is., *Persian Gulf* (18 N/7;  $26^{\circ} 16'$  :  $55^{\circ} 18'$ ), Hormuz and Makran beds. W. T. B., R, V, 43, 44; G. E. P., M, XXXIV, pt. 4, 142.
- Tumdia, *Jhabua* (46 J/5;  $22^{\circ} 45'$  :  $74^{\circ} 29'$ ), manganese-ore. L. L. F., M, XXXVII, 689.
- Tuinidih, *Raigarh* (64 N/4;  $22^{\circ} 6'$  :  $83^{\circ} 6'$ ), borings for coal. W. K., R, XX, 194=Tuinidih.
- Tumkhera Khurd, *Bhandara* (64 C/3;  $21^{\circ} 25'$  :  $80^{\circ} 13'$ ), asbestos. L. L. F., M, XXXVII, 398; R, L, 275.
- Tumkur, *Mysore* (57 G/3;  $13^{\circ} 20'$  :  $77^{\circ} 6'$ ), manganese-ore. L. L. F., M, XXXVII, 1151.
- Tummalatalupur, Tummulatapur, *Nellore* (57 N/11;  $14^{\circ} 18'$  :  $79^{\circ} 42'$ ), quartzites, ? Cuddapah. W. K., M, XVI, 139; zinc-spinel. W. K. C., R, LXI, 315.
- Tummumpetty, *Salem* (58 I/7;  $11^{\circ} 26' 30''$  :  $78^{\circ} 29'$ ), iron-ore. W. K., M, IV, 296=Tammampatti.
- Tumoy, *Nellore* (57 N/11;  $14^{\circ} 16'$  :  $79^{\circ} 34' 30''$ ), trap dyke. W. K., M, XVI, 167.



- Tump Giran, *Persia* (25 I/7; 27° 18' : 58° 20'), hornblende-andesite. G. H. T., **R**, LIII, 69.
- Tumriband, *Ganjam* (65 M/9; 19° 58' : 83° 42'), schists. F. H. S., **A. R.**, 1900, 157.
- Tumsur, *Balaghat* (55 O/14; 21° 42' 30" : 79° 52'), manganese-ore. L. L. F., **M**, XXXVII, 713.
- Tumurmatti, *Bijapur* (47 P/12; 16° 14' : 75° 39'), L. Kaladgi beds, section. R. B. F., **M**, XII, 80.
- Tüna, *Tibet* (78 E/1; 27° 58' : 89° 15'), Jurassic beds. H. H. H., **M**, XXXVI, 157; Cretaceous, 165; Tertiary, 172-174; **R**, XXXII, 163.
- Tundkalpudi, *Kistna* (65 H/1; 16° 54' 30" : 81° 10'), U. Gondwana beds, building stone. W. K., **M**, XVI, 227, 253.
- Tundla, *Kalahandi* (65 M/1; 19° 53' : 83° 3'), mica-pegmatite. T. L. W., **M**, XXXIII, pt. 3, 20.
- Tundni, *Narsinghpur* (55 J/10; 22° 43' : 78° 44'), borings for coal. H. B. M., **R**, XI, 8; XII, 98; R. R. S., **M**, XLI, 91.
- Tundri hill, *Bilaspur* (64 O/1; 21° 54' : 83° 12'), Vindhyan conglomerates. W. K., **R**, XVIII, 186.
- Tundwa, *Hazaribagh* (73 E/1; 23° 51' : 85° 2'), ironstone in Raniganj shales. A. J., **M**, LII, 126 = Tandwa and Tendwa.
- Tung, *Sibi* (39 C/1; 29° 48' : 68° 15'), junction of Eocene and Siwalik beds. W. T. B., **M**, XX, 197; R. D. O., **R**, XXIII, 99; gypsum bed, 109.
- Tung (Tong), *Sikkim* (78 A/10; 27° 32' : 88° 37'), crystalline limestone. H. H. H., **M**, XXXVI, 139.
- Tunga, *Jaipur* (54 B/2; 26° 44' : 76° 9'), Aravalli rocks (?). A. M. H., **R**, LIV, 360.
- Tungabhadra R., *Bellary* (57 A/S. W.; 15° 14' : 76° 11'), gradient. R. B. F., **M**, XXV, 9; high-level gravels, 180.
- Tung-ch'uan Fu, *Ssu-chuan* (101 N/3; 26° 25' : 103° 11'), coalfield. J. C. B., **M**, XLVII, 72; native copper, 106.
- T'ung-hai Hsien, *Yunnan* (101 L/16; 24° 7' : 102° 48'), coalfield. J. C. B., **M**, XLVII, 77.
- Tungi (Tongi), *Hazaribagh* (73 E/6; 23° 40' : 85° 26'), crystalline limestone. T. W. H. H., **M**, VII, 342.
- Tung-ji-nath (Thangnat), *Khasi Hills* (78 O/15; 25° 17' 30" : 91° 54'), coal seam. T. O., **M**, I, 130 = Thanjinath.
- Tungka La, *Bhutan* (78 N/5; 26° 57' : 91° 23'), red schistose slates, Daling series. G. E. P., **R**, XXXIV, 26.
- Tungwai, *Khasi Hills* (78 O/12; 25° 11' : 91° 43'), limestone quarries. T. O., **M**, I, 137, 181.
- Tun-hsai, *N. Shan States* (93 E/7; 23° 15' 30" : 97° 17' 30"), Chaung-Magyi slates. J. C. B., **R**, XLVIII, 139 = Tunswc.
- Tunil Buru, *Singhbhum* (73 F/6; 22° 37' : 85° 25'), scoriaceous epidiorite. J. A. D., **M**, LIV, 76.
- Tunklia, *Jodhpur* (45 F/14; 26° 38' : 73° 46'), conglomeratic grits, Vindhyan. A. M. H., **R**, LXV, 474.
- Tunswc, *N. Shan States* (93 E/7; 23° 15' 30" : 97° 17' 30"), Tawngpeng granite, boundary. E. H. P., **R**, LXIII, 92 = Tun-hsai.

- Tuntikel, *Singhbhum* (73 F/1 ; 22° 48' : 85° 11' 30"), blasto-porphyritic epidiorite. J. A. D., **M**, LIV, 93.
- Tuppur, *Shimoga* (48 N/8 ; 14° 5' : 75° 19'), manganese-ore. L. L. F., **M**, XXXVII, 1134.
- Tura, *Garo Hills* (78 K/2 ; 25° 31' : 90° 13'), kaolin. T. D. L., **R**, XX, 42 ; earthquakes : Assam, 1897. R. D. O., **M**, XXIX, 9, 84 ; change of level, 159 ; aftershocks. XXX, 33 ; Srimangal, 1918. M. S., **M**, XLVI, 30 ; Dhubri, 1930. L. L. F., **R**, LXV, 32.
- Turadun, *Persian Gulf* (18 N/5 ; 26° 50' : 55° 21'), Fars series. G. E. P., **M**, XXXIV, pt. 4, 106.
- Turamdih, *Singhbhum* (73 J/2 ; 22° 43' : 86° 11'), iron-ore and steatite. T. H. H., **R**, XXXVIII, 41 ; L. L. F., **R**, LIII, 275, 301.
- Turamulla, *Nellore* (57 N/11 ; 14° 16' : 79° 44'), quartzites, ? Cuddapah. W. K., **M**, XVI, 139.
- Turbela, *Hazara* (43 B/16 ; 34° 8' : 72° 48'), phyllites, Slate series. C. S. M., **M**, XXVI, 53 ; gneissose granite, petrology, 71 ; Tanol quartzites and schists, 240.
- Turhesa, *Hazaribagh* (73 E/1 ; 23° 54' : 85° 5' 30"). Talchir-gneiss boundary. A. J., **M**, LII, 13 ; Barakars and coal, 35 (figs.).
- Turi (Tiur) Pahar, *Santal Parganas* (72 L/14 ; 24° 30' : 86° 50'), lead-ore. L. L. F., **R**, LIII, 283.
- Turipotk, *Chitral* (42 D/14 ; 36° 44' : 72° 56'), limestone. H. H. H., **R**, XLV, 289.
- Turitiancon, *Malabar* (58 A/4 ; 11° 2' : 76° 14'), laterite bands in gneiss. P. L., **M**, XXIV, 226.
- Turkakua, *Kohat* (38 O/4 ; 33° 9' 30" : 71° 11' 30"), Gypseous and Tertiary beds, section. A. B. W., **M**, XI, 270 (Pl. ix, fig. 47).
- Turkandona, *Raichur* (56 H/8 ; 16° 0' : 77° 19' 30"), granite veins in gneiss. R. B. F., **M**, XII, 66.
- Turkecsaur, *Turkesar, Surat* (46 G/3 ; 21° 22' 30" : 73° 4'), Eocene beds, laterite. A. B. W., **R**, I, 31 ; W. T. B., **M**, VI, 367 ; analysis of laterite. T. H. H., **R**, XXXII, 181=Tardkesar.
- Turkel, *Kalahandi* (64 P/4 ; 20° 8' : 83° 6'), anorthosite. T. L. W., **M**, XXXIII, pt. 3, 7.
- Turkoman dara, *Afghanistan* (38 B/5 ; 34° 47' : 68° 28'), Tertiary beds. H. H. H., **M**, XXXIX, 50.
- Turnawai, *Hazara* (43 F/7 ; 34° 16' 30" : 73° 18'), hot spring. T. O., **M**, XIX, 116 ; Infra-Trias and Trias, section. C. S. M., **M**, XXVI, 125 (fig.).
- Turpupundla, *Nellore* (57 N/16 ; 14° 11' : 79° 47'), allanite. G. H. T., **R**, LII, 309.
- Turrang, *Ranchi* (73 F/1 ; 22° 49' : 85° 11' 30'), colourless amphibole-schist. J. A. D., **M**, LIV, 94 (Pl. xv, fig. 1).
- Tusdun Beles, *Kashgar* (42 J/2 ; 38° 30' : 74° 14'), limestone and carbonaceous shales, H. H. H., **R**, XLV, 317.
- Tusham (Tosham), *Hissar* (44 P/13 ; 28° 52' : 75° 55'), chialtolite schist and igneous rocks, petrology. C. A. M., **R**, XVII, 105.
- Tusurkow R., *Manbhum* (73 I/6 ; 23° 33' : 86° 23'), metamorphic rocks, thick ness. V. B., **M**, XVIII, 89.

- Tuticorin, *Tinnevely* (58 L/1 ; 8° 48' : 78° 9'), advance of delta alluvium. R. B. F., **M**, XX, 81 ; sand dunes. J. W., **R**, XXIII, 114.
- Tutumela, *Miranzai* (38 O/2 ; 33° 35' 30" : 71° 3'), nummulitic limestone. C. L. G., **R**, XXV, 84.
- Tutipet (Tuttippattu), *Pondicherry* (58 M/9 ; 11° 58' 30" : 79° 43' 30"), Cretaceous fossils. H. W., **R**, XXVIII, 17 ; F. K., **R**, XXX, 56, 59.
- Tutmari pass, *Kashmir* (43 F/15 ; 34° 19' : 73° 59'), Silurian-Carboniferous, section. R. L., **R**, XV, 16 ; **M**, XXII, 225.
- Tutugutu, *Singhbhum* (73 F/15 ; 22° 29' : 85° 47'), manganese-ore. L. L. F., **M**, XXXVII, 459, 620, 628.
- Tutui, *Ranchi* (73 F/5 ; 22° 49' : 85° 28'), piedmontite-phyllite. J. A. D., **M**, LIV, 41 (Pl. x, fig. 1).
- Tuyapar, *Nagpur* (55 O/6 ; 21° 34' 30" : 79° 25'), dolomitic marbles and granulites, Bichua stage. L. L. F., **R**, LXV, 104.
- Tuywa, *L. Chindwin* (84 J/15 ; 22° 24' : 94° 47'), alluvial gold. E. H. P., **R**, LXI, 56.
- Tuz Khurmatu, *Iraq* (2 B/9 ; 34° 52' : 44° 40'), sulphur springs. E. H. P., **M**, XLVIII, 53.
- Tuzu R., *Naga Hills* (83 K/14 ; 25° 36' : 94° 51'), gabbro and lherzolite. E. H. P., **R**, XLII, 258 (Pls. xxviii-xxxi) ; roofing slates, 263.
- Twante, *Hanthawaddy* (84 P/14 ; 16° 42' 30" : 95° 56'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 237.
- Twin, *L. Chindwin* (84 J/15 ; 22° 17' : 94° 58'), crater lake. R. D. O., **R**, XXXIV, 142 (Pl. xvii).
- Twingoung, *Magwe*, oilfield, see Yenangyaung.
- Twinmayat, *Shwebo* (84 N/15 ; 22° 27' : 95° 49'), hot springs. L. L. F., **R**, LXV, 93=Halin.
- Twinnge, *Mandalay* (93 C/5 ; 21° 58' : 96° 22'), iron-ore. P. N. D., **A. R.**, 1900, 121 ; J. C. B., **R**, XLVII, 137 (fig.) ; graptolite beds. T. D. L., **M**, XXXIX, pt. 2, 170.
- Tyin (Jebel), *Oman* (26 I/7 ; 23° 20' : 58° 25'), Oman series. G. E. P., **M**, XXXIV, pt. 4, 12, 98.
- Tyrna (? Tyrngai), *Khasi Hills* (78 O/16 ; 25° 14' : 91° 48'), Cretaceous fossils. R. W. P., **R**, LV, 162.
- Tyrnai, *Khasi Hills* (78 O/7 ; 25° 19' : 91° 27'), basal conglomerate, Cretaceous. R. W. P., **R**, LV, 161.
- Tzu-men-lu, *Yunnan* (101 L/9 ; 24° 57' : 102° 34'), Fusulina limestone. J. C. B., **R**, XLIV, 109.
- Ubbalagandi, *Bellary* (57 A/12 ; 15° 3' : 76° 39' 30"), riband jasper. R. B. F., **M**, XXV, 203.
- Ubbalagandi gorge, *Sandur* (57 A/12 ; 15° 3' 30" : 76° 31'), hematite-quartzites, Dharwar. R. B. F., **M**, XXV, 115=Oblagundi gorge.
- Ubrani, *Kadur* (48 O/13 ; 13° 51' : 75° 55'), manganese-ore. L. L. F., **M**, XXXVII, 1126.
- Ubsal, *Idar* (46 E/5 ; 23° 48' 30" : 73° 17'), Delhi quartzite. C. S. M., **M**, XLIV, 94.

- Uch, *Sibi* (39 D/10; 28° 40' : 68° 34'), saline springs. T. O., **M**, XIX, 114.
- Uchhali, *Shahpur* (43 D/2; 32° 32' : 72° 1'), salt lake. E. H. P., **M**, XL, 435.
- Uchhri, *Attock* (38 O/15; 33° 22' : 71° 55'), oil concession. E. H. P., **M**, XL, 409; fault. L. L. F., **R**, LXV, 122.
- Uchich, *Kulu* (52 H/8; 32° 1' : 77° 23'), lead mine. F. R. M., **M**, V, 165.
- Uchingi Drug, *Bellary* (57 B/2; 14° 33' : 76° 3'), gneiss and Dharwar rocks, pot-stone. R. B. F., **M**, XXV, 33, 90; trap dyke, 161.
- Udaipur, *Rajputana* (45 H/10; 24° 35' : 73° 41'), basal beds, Delhi series. E. H. P., **R**, LX, 109.
- Udaiyapatti (Odaiyapatti), *Trichinopoly* (58 J/1; 10° 48' : 78° 15'), iolite. T. H. H., **R**, XXXIX, 248.
- Udal, *Singbham* (73 J/6; 22° 32' : 86° 16'), conglomerates, Iron-Ore series. E. H. P., **R**, LXIII, 82.
- Udalkham, *Kharsawan* (73 F/14; 22° 44' : 85° 49' 30"), epidiorite, petrology. J. A. D., **M**, LIV, 84.
- Udampur, *Janmu* (43 P/1; 32° 55' : 75° 7'), Nahan-Siwalik boundary. H. B. M., **R**, IX, 52.
- Udariipi Drug, *Anantapur* (57 F/5; 14° 50' : 77° 20'), Dharwar rocks. R. B. F., **R**, XIX, 101.
- Udayagiri, *Nellore* (57 N/5; 14° 53' : 79° 18'), unconformity, Cuddapah-gneissic series. W. K., **M**, XVI, 160; T. H. H., **M**, XXXIV, 60.
- Udepur (Udayapur), *Gwalior* (55 I/1; 23° 54' : 78° 3' 30"), U. Vindhyan beds. H. H. H., **R**, XLIII, 25.
- Udepur, *Jaipur* (45 M/6; 27° 44' : 75° 29'), passage beds, Alwar-Ajabgarh series. A. M. H., **R**, LIV, 375.
- Udesna, *Panna* (63 D/6; 24° 41' : 80° 16'), diamond workings. H. B. M., **M**, II, 73; E. V., **R**, XXXIII, 287.
- Udhala, *Jaipur* (54 A/8; 27° 0' 30" : 76° 17'), copper-ore. A. M. H., **M**, XLV, 122.
- Udipi, *S. Kanuru* (48 K/15; 13° 20' : 74° 45'), meteorite. J. C. B., **M**, XLIII, 277.
- Udpakta, *Dchra Dun* (53 F/14; 30° 37' : 77° 53' 30"), Krol limestone. G. E. P., **M**, LIII, 50.
- Udri, *Rewah* (64 E/7; 23° 24' 30" : 81° 19'), coal seam. T. W. H. H., **M**, XXI, 245.
- Udu, *Ahmadabad* (41 M/12; 23° 14' : 71° 42'), salt works. W. K. C. **R**, LVII, 271.
- Udwa Nala, *Santal Parganas* (72 P/13; 24° 58' : 87° 50'), basalt quarries. V. B., **M**, XIII, 238.
- Ughi (Oghi), *Hazara* (43 F/2; 34° 30' : 73° 1'), 'erratics'. W. T., **R**, XIII, 233.
- Ugrech, *Sirmur* (53 F/10; 30° 42' : 77° 31'), Jaunsar overthrust. G. E. P., **M**, LIII, 35.
- Uhl R., *Mandi* (53 A/13; 31° 55' : 76° 55'), hydro-electric project. E. H. P., **R**, LVI, 27; LX, 38; L. L. F., **R**, LXV, 44=Ool R.
- Ujadbai (Ghujak-bai), *Kashgar* (42 O/8; 37° 14' : 75° 23'), Sarikol Shales-Eocene, section. H. H. H., **R**, XLV, 303 (fig.).
- Ujeini, *Rewah* (63 L/8; 24° 10' : 82° 23'), coal seam. C. L. G., **R**, XXVIII, 87, 117; R. R. S., **M**, XLI, 79.

- Ujinni, *Bellary* (57 B/6;  $14^{\circ} 43' 30''$  :  $76^{\circ} 17'$ ), hornblendic gneiss. R. B. F., **M**, XXV, 39.
- Ukiam, *Kamrup* (78 O/5;  $25^{\circ} 51'$  :  $91^{\circ} 21'$ ), earthquake, 1897, floods. R. D. O., **M**, XXIX, 122; overturned trees, 151.
- Ukua, *Balaghat* (64 C/5;  $21^{\circ} 58'$  :  $80^{\circ} 28'$ ), psilomelane. L. L. F., **M**, XXXVII, 98; ottrelite, 200; gondite, 310 (Pl. xii, fig. 1); red quartzite, 344; manganese-ore, 727.
- Ulagchi (Uraf), *Persia* (24 B/4;  $30^{\circ} 13' 30''$  :  $56^{\circ} 1'$ ), volcanic rocks, U. Cretaceous. G. E. P., **M**, XLVIII, pt. 2, 68.
- Uliano, *Jaipur* (54 B/8;  $26^{\circ} 5' 30''$  :  $76^{\circ} 28' 30''$ ), passage of Gwalior quartzite into shales. A. M. H., **M**, XLV, 136.
- Ulipur, *Rangpur* (78 G/10;  $25^{\circ} 39'$  :  $89^{\circ} 37'$ ), earthquake, 1897, silting of rivers. R. D. O., **M**, XXXIX, 320.
- Ulkhaur (Al Khaur), *Aden* (7 G/8;  $13^{\circ} 13' 30''$  :  $45^{\circ} 21' 30''$ ), Jurassic limestone. F. R. M., **M**, VII, 282.
- Ullalaporam (Allalapuram), *Salem* (58 I/3;  $11^{\circ} 18'$  :  $78^{\circ} 7'$ ), iron-ore beds. W. K., **M**, IV, 287.
- Ulug-art, *Kashgar* (42 J/13;  $38^{\circ} 59'$  :  $74^{\circ} 48'$ ), slates and quartzites. H. H. H., **R**, XLV, 319.
- Ulur (Uluvar), *Tanjore* (58 N/2;  $10^{\circ} 41'$  :  $79^{\circ} 13'$ ), lateritic sands. R. B. F., **R**, XII, 155.
- Um Plu, *Khasi Hills* (78 O/3;  $25^{\circ} 18'$  :  $91^{\circ} 5'$ ), coal seams. T. D. L., **R**, XVII, 144; R. R. S., **M**, XLI, 28.
- Um Rileng, *Khasi Hills* (78 O/14;  $25^{\circ} 42'$  :  $91^{\circ} 49'$ ), coalfield. P. N. B., **R**, XXXI, 35 (Pl. iii); R. R. S., **M**, XLI, 29.
- Umar, *Bundi* (45 O/6;  $25^{\circ} 41'$  :  $75^{\circ} 28'$ ), marble. A. L. C., **R**, LX, 167, 190; iron-ore 191.
- Umar Khel, *D. I. Khan* (38 P/7;  $32^{\circ} 25'$  :  $71^{\circ} 17'$ ), boulder beds, Chharat stage. E. H. P., **M**, XL, 347=Omar Khel.
- Umar R., *Narsinghpur* (55 M/4;  $23^{\circ} 3'$  :  $79^{\circ} 15'$ ), Jabalpur beds. H. B. M., **M**, X, 142.
- Umaria, *Rewah* (64 A/14;  $23^{\circ} 32'$  :  $80^{\circ} 50'$ ), coalfield. T. W. H. H., **R**, XIV, 314; XV, 169; XVI, 118; XVII, 146; **M**, XXI, 154 (Pls. ii-iv); R. R. S., **M**, XLI, 75; E. R. G., **R**, LX, 399 (Pls. xxxvii-xxxix); Permo-Carboniferous fauna. F. C. R., **R**, LX, 367 (Pls. xxxi-xxxvi); pottery-clay. F. R. M., **R**, XXII, 142.
- Umarkot, *Jeypore* (65 I/2;  $19^{\circ} 40'$  :  $82^{\circ} 12' 30''$ ), laterite. L. L. F., **R**, LXV, 35.
- Umarkot, *Thar Parkar* (40 G/11;  $25^{\circ} 22'$  :  $69^{\circ} 44'$ ), *Potamidés* in salt pools. W. T. B., **R**, X, 10; C. A. H., **R**, XIII, 204; Cutch earthquake, 1819. R. D. O., **M**, XLVI, 112.
- Umarthuna, *Bundi* (45 O/11;  $25^{\circ} 24'$  :  $75^{\circ} 31' 30''$ ), sandstone quarry. A. L. C., **R**, LX, 190.
- Umbala, *Punjab* (53 B/15;  $30^{\circ} 22'$  :  $76^{\circ} 47'$ ), meteorite. J. C. B., **M**, XLIII, 277=Ambala.
- Umbapani (Amarpani), *Santal Parganas* (72 P/11;  $24^{\circ} 16' 30''$  :  $87^{\circ} 32' 30''$ ), fire-clay. M. S., **R**, XXXVIII, 142.
- Umbeeka (Ambika) R., *Surat* (46 H/1;  $20^{\circ} 53'$  :  $73^{\circ} 5'$ ), Deccan trap. A. B. W., **R**, I, 31.

- Umblai R., *Khasi Hills* (78 O/3;  $25^{\circ} 15' : 91^{\circ} 11'$ ), Cretaceous fossils. H. B. M., **M**, VII, 176; Sylhet trap, 184; coalfield. R. R. S., **M**, XLI, 28=Kynshiang R.
- Umedpura, *Idar* (46 A/13;  $23^{\circ} 52' 30'' : 72^{\circ} 48'$ ), Idar granite. C. S. M., **M**, XLIV, 117.
- Umia (Umniuh), *Khasi Hills* (78 O/16;  $25^{\circ} 12' : 91^{\circ} 50' 30''$ ), Sylhet trap. P. N. B., **A. R.**, 1901, 23.
- Umiaveram (Umaiypuram), *N. Arcot* (57 P/9;  $12^{\circ} 49' : 79^{\circ} 35' 30''$ ), U. Gondwana outlier. R. B. F., **R**, XII, 202.
- Umlawang, *Jaintia Hills* (83 C/7;  $25^{\circ} 21' : 92^{\circ} 25'$ ), nummulitic limestone. P. N. B., **A. R.**, 1902, 26.
- Umlotodo, *Jaintia Hills* (83 C/8;  $25^{\circ} 11' 30'' : 92^{\circ} 17'$ ), coalfield. T. D. L., **R**, XXIII, 14 (Pl. i); nummulitic limestone. P. N. B., **A. R.**, 1902, 27.
- Umm Nahsan, *Persian Gulf* (11 J/8;  $26^{\circ} 9' : 50^{\circ} 22'$ ), raised coral reef. G. E. P., **M**, XXXIV, pt. 4, 123; gypsum, 159.
- U-mong, *N. Shan States* (93 F/2;  $22^{\circ} 39' : 97^{\circ} 5'$ ), Ordovician fossils. T. D. L., **M**, XXXIX, pt. 2, 76.
- Umra, *Surat* (46 C/16;  $21^{\circ} 10' 30'' : 72^{\circ} 47'$ ), Cutch earthquake, 1819. R. D. O., **M**, XLVI, 114.
- Umrasiang, *Jaintia Hills* (83 C/8;  $25^{\circ} 13' 30'' : 92^{\circ} 19'$ ), swallow hole. T. D. L., **R**, XVI, 200.
- Umrela, *Garhwal* (53 K/9;  $29^{\circ} 48' : 78^{\circ} 35'$ ), Tal beds, fossils. C. S. M., **R**, XVIII, 73.
- Umrei, *Nagpur* (55 P/5;  $20^{\circ} 51' : 79^{\circ} 19'$ ), Sakoli beds. L. L. F., **R**, LXV, 105.
- Umri (Amra), *Hazaribagh* (73 E/13;  $23^{\circ} 59' : 85^{\circ} 58' 30''$ ), molybdenum-ore. L. L. F., **R**, LIII, 293.
- Umri, *Nagpur* (55 O/6;  $21^{\circ} 35' : 79^{\circ} 24' 30''$ ), Bichua stage-gneiss boundary. L. L. F., **R**, LXV, 102.
- Umsad, *Oman* (26 I/6;  $23^{\circ} 36' : 58^{\circ} 22'$ ), Eocene pebble bed. G. E. P., **M**, XXXIV, pt. 4, 96.
- Una, *Hoshiarpur* (53 A/7;  $31^{\circ} 28' : 76^{\circ} 16'$ ), Siwalik beds, section. H. B. M., **M**, III, pt. 2, 141 (fig.).
- Unai Kotal, *Afghanistan* (38 B/7;  $34^{\circ} 27' : 68^{\circ} 22'$ ), conglomerate, Helmand series. H. H. H., **M**, XXXIX, 72.
- Unao, *United Provs.* (63 B/7;  $26^{\circ} 23' : 80^{\circ} 29'$ ), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 245.
- Unaparedipali (Annapareddipalli), *Warangal* (65 C/15;  $17^{\circ} 22' : 80^{\circ} 47'$ ), Kamthi sandstones. W. T. R., **R**, V, 25.
- Unapdeo, *Adilabad* (56 I/1;  $19^{\circ} 51' 30'' : 78^{\circ} 15'$ ), hot spring. T. O., **M**, XIX, 143.
- Under R., *Khariar* (64 I/11;  $20^{\circ} 25' : 82^{\circ} 33'$ ), contortions in Vindhyan beds. V. B., **R**, X, 175 (fig.).
- Undhania, *Chota Udaipur* (46 F/15;  $22^{\circ} 28' 30'' : 73^{\circ} 48' 30''$ ), dam-site. G. V. H., **R**, LX, 356.
- Undpura (Anandpur), *Jaipur* (54 B/12;  $26^{\circ} 5' 30'' : 76^{\circ} 33'$ ), trap, Gwalior series. A. M. H., **M**, XLV, 135; fault, 176.
- Undwaria, *Sirohi* (45 D/10;  $24^{\circ} 43' : 72^{\circ} 44'$ ), rhyolites and porphyries. E. H. P., **R**, LX, 115.
- Uneri, *Ratnagiri* (47 G/6;  $17^{\circ} 37' : 73^{\circ} 19'$ ), hot spring. T. O., **M**, XIX, 106.

- Ungo pass, *Kohat* (38 O/14; 33° 37' : 71° 56'), Eocene beds. C. L. G., **R**, XXV, 101.
- Unkuda, *Ranchi* (73 F/1; 22° 54' 30" : 85° 14'), quartzite after tuff. J. A. D., **M**, LIV, 28.
- Unta Dhura (pass), *Almora* (62 B/2; 30° 34' : 80° 12'), Triassic fossils. T. W. H. H., **R**, XI, 184 -- Uttardhura pass.
- Unwa (Urwas), *Mewar* (45 H/9; 24° 58' 30" : 73° 43'), Aravalli granite-gneiss. E. H. P., **R**, LXI, 128.
- Uparhatti, *Belgaum* (47 L/16; 16° 8' 30" : 74° 54'), Intertrappean beds, section. R. B. F., **M**, XII, 195 (fig.).
- Uphia (Afia), *Surguja* (64 M/11; 23° 24' : 83° 31' 30"), Talchir beds. V. B., **R**, VI, 28.
- Uppuguntanattun, *N. Arcot* (57 L/13; 12° 56' 30" : 78° 49'), biotite-gneiss. L. L. F., **R**, LXV, 111.
- Uproli, *Dehra Dun* (53 F/14; 30° 38' : 77° 54'), Krol limestone. G. E. P., **M**, LIII, 50.
- Uprora, *Bilaspur* (64 J/10; 22° 38' : 82° 43' 30"), gneiss. W. K., **R**, XVIII, 171; Talchir beds, 192.
- Upshi, *Ladakh* (52 G/13; 33° 50' : 77° 49'), Tertiary conglomerates. R. L., **R**, XIII, 39.
- Upu, *Tehrri* (53 J/7; 30° 27' : 78° 25' 30"), quartzites and conglomerates. C. S. M., **R**, XX, 32.
- Urak, *Quetta-Pishin* (34 N/3; 30° 16' : 67° 11'), reservoir site. E. H. P., **R**, LVIII, 25.
- Urangi, *Rewah* (63 L/7; 24° 30' : 82° 28'), Bijawar limestone. E. V., **M**, XXXI, 69.
- Uranhatti (Yaranhatti), *Belgaum* (47 L/12; 16° 3' : 74° 44'), outlier of gneiss. R. B. F., **M**, XII, 92.
- Urakhdih, *Singhbhum* (73 J/6; 22° 39' : 86° 21'), kyanite-rock. J. A. D., **M**, LII, 235.
- Uravakonda, *Anantapur* (57 F/5; 14° 57' : 77° 15' 30"), granite-gneiss. R. B. F., **R**, XIX, 101.
- Urdok glacier, *Ladakh* (52 A/9; 35° 46' : 76° 44'), movements of snout. K. M., **R**, LXIII, 264 (Pl. vii, 26).
- Urgarhi, *Rewah* (63 L/8; 24° 14' : 82° 25'), lead-ore. R. D. O., **M**, XXXI, 173.
- Urghuch, *Chitral* (38 M/13; 35° 47' : 71° 46'), quartzite, Slate series. H. H. H., **R**, XLV, 282.
- Urgudda, *Hazaribagh* (73 E/6; 23° 39' 30" : 85° 27'), coal seams. A. J., **M**, LII, 95 (Pls. ix, fig. 3 & x, fig. 1).
- Urhal, *Hazara* (43 F/9; 34° 55' 30" : 73° 36'), altered dolerite and pyroxenite dykes. I. N. W., **R**, LXV, 200.
- Uri, *Kashmir* (43 J/4; 34° 5' : 74° 3'), Eocene beds. R. L., **R**, IX, 158; **M**, XXII, 95, 193; E. H. P., **M**, XI, 440; D. N. W., **M**, LI, 301; Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 189.
- Urikel, *Ranchi* (73 F/1; 22° 52' 30" : 85° 2' 30"), blasto-porphyrific hornblende-schist. L. A. N., **R**, LXV, 505 (Pl. xxvii, fig. 2); analysis, 509.
- Urlagondah (Orlakonda), *Nalgonda* (56 O/16; 17° 14' : 79° 51'), granite-gneiss. R. B. F., **R**, XVIII, 27.

- Urmal, *Manbhum* (73 F/13;  $22^{\circ} 58' : 85^{\circ} 53'$ ), dips in Iron Ore series. J. A. D. **M**, LIV, 39.
- Urnu, *Ranchi* (73 I/2;  $22^{\circ} 36' 30'' : 85^{\circ} 2'$ ), amphibole-garnet-rock. J. A. D., **M**, LIV, 93, 94.
- Ursu, *Gangpur* (73 F/3;  $22^{\circ} 17' 30'' : 85^{\circ} 1'$ ), limestone. E. H. P., **R**, LXII, 57.
- Ursuk, *Afghanistan* (38 C/14;  $33^{\circ} 39' : 68^{\circ} 48'$ ), galena. C. L. G., **R**, XXV, 77.
- Urtan, *Rewah* (64 E/15;  $23^{\circ} 19' : 81^{\circ} 58' 30''$ ), coal seams. T. W. H. H., **M**, XXI, 245.
- Urta-uch-kol, *Russian Turkestan* (42 G/14;  $37^{\circ} 35' : 73^{\circ} 51'$ ), Sarikol Shales. H. H. H., **R**, XLV, 312.
- Uru R., *Myitkyina* (92 C/N. W.;  $25^{\circ} 37' : 96^{\circ} 21'$ ), jadeite. F. N., **R**, XXV, 134; XXVI, 27; A. W. G. B., **R**, XXXVI, 256=Uyu R.
- Urumanjumatti, *Shimoga* (48 O/13;  $13^{\circ} 49' : 75^{\circ} 47'$ ), manganese-ore. L. L. F., **M**, XXXVII, 1150.
- Usgaon, *Bhandara* (55 O/16;  $21^{\circ} 11' : 79^{\circ} 51'$ ), tourmaline-pegmatite. S. K. C., **R**, LXV, 295.
- Usira, *Agra* (54 F/9;  $26^{\circ} 57' : 77^{\circ} 37'$ ), geodetic station. R. D. O., **M**, XLII, 218.
- Uskali, *Hoshangabad* (55 F/7;  $22^{\circ} 17' : 77^{\circ} 21'$ ), sandstone quarries. H. B. M., **R**, VIII, 71.
- Usra, *Gangpur* (73 B/12;  $22^{\circ} 14' 30'' : 84^{\circ} 41' 30''$ ), limestone. E. H. P., **R**, LXII, 57.
- Ustarzai, *Kohat* (38 O/2;  $33^{\circ} 36' : 71^{\circ} 15'$ ), U. Eocene beds. H. H. H., **A. R.**, 1898, 55.
- Usteri Tank, *Pondicherry* (58 M/9;  $11^{\circ} 57' : 79^{\circ} 45'$ ), limestone, Ariyalur stage. H. W., **R**, XXVIII, 19=Ossatary Tank.
- Utamar, *Khasi Hills* (78 O/16;  $25^{\circ} 10' 30'' : 91^{\circ} 50'$ ), nummulitic limestone. P. N. B., **A. R.**, 1901, 21.
- Utatur, *Trichinopoly* (58 I/16;  $11^{\circ} 4' : 78^{\circ} 51'$ ), ossiferous sandstone and coral limestone, Cretaceous. J. W., **R**, XXIII, 119; phosphatic nodules. H. C. Das Gupta, **R**, LIV, 337; analyses. G. S. L., **R**, XXV, 117, 166 - Ootatoor.
- Utekata, *Chhindwara* (55 K/14;  $21^{\circ} 41' : 78^{\circ} 52'$ ), block-fault in Deccan trap. C. S. M., **R**, XLV, 128; H. H. H., **R**, XLVII, 35=Utikata.
- Uthayan, *Tavoy* (95 J/3;  $14^{\circ} 22' : 98^{\circ} 10'$ ), galena. J. C. B., **M**, XLIV, 221.
- Utiaman, *Bara Banki* (63 F/1;  $27^{\circ} 0' : 81^{\circ} 12'$ ), geodetic station. R. D. O., **M**, XLII, 213.
- Utikata, *Chhindwara* (55 K/14;  $21^{\circ} 41' : 78^{\circ} 52'$ ), Lameta limestone, petrology. L. L. F., **R**, XXXIII, 165; quartz-pyroxene-gneiss, 189=Utekata.
- Utingi, *Bellary* (57 B/1;  $14^{\circ} 59' : 76^{\circ} 2' 30''$ ), granitoid gneiss. R. B. F., **M**, XXV, 38.
- Utrina, *Rawalpindi* (43 G/10;  $33^{\circ} 38' 30'' : 73^{\circ} 32'$ ), Himalayan syntaxis. D. N. W., **M**, LI, 359.
- Utripura, *Cawnpore* (63 B/2;  $26^{\circ} 44' 30'' : 80^{\circ} 5'$ ), earthquake, 1897, time record. R. D. O., **M**, XXI, 65, 71.
- Utsi, *Tibet* (77 D/7;  $28^{\circ} 20' : 88^{\circ} 29'$ ), soda efflorescence. H. H. H., **R**, XXXII, 171; **M**, XXXVI, 186, 189.



- Uttardhura pass, *Almora* (62 B/2; 30° 34' : 80° 12'), syncline in Carbo-Triassic beds. C. L. G., **M**, XXXIII, 158 (fig. & Pl. ii, fig. 3); Muschelkalk fossils. C. D., **M**, XXXVI, 268=Unta Dhura.
- Uttukuli, *Coimbatore* (58 E/8; 11° 10' : 77° 27' 30"), quartz-magnetite schists. C. S. M., **A. R.**, 1898, 20.
- Utukur, *Nellore* (57 N/12; 14° 14' : 79° 44' 30"), mica. T. H. H., **M**, XXXIV, 21, 64.
- Ututua, *Singhbhum* (73 F/10; 22° 35' : 85° 36'), tuffs, Iron Ore series. J. A. D., **M**, LIV, 62.
- Uyin, *Thayetmyo* (85 M/7; 19° 25' : 95° 15' 30"), Pegu anticline. H. H. H., **R**, XLVII, 23, 32.
- Uyu R., *Myitkyina* (92 C/N. W.; 25° 37' : 96° 21'), alluvial gold. H. S. B., **R**, XLIII, 255=Uru R.
- Uzezmung (Azizmong), *Hazara* (43 F/8; 34° 9' : 73° 20'), Trias-Eocene, section. C. S. M., **M**, XXVI, 167 (Pl. iii, fig. 2).
- Vachkarya R., *Kashmir* (43 N/11; 34° 17' : 75° 35'), glaciated valley. R. D. O., **R**, XXXI, 152.
- Vadachari, *Tinnevely* (58 H/11; 8° 19' : 77° 44'), travertine. R. B. F., **M**, XX, 78.
- Vadadey, *Kistna* (65 D/1; 16° 49' : 80° 8'), borings for coal. R. R. S., **M**, XLI, 106.
- Vadai Choung, *Toungoo* (94 G/1; 17° 54' : 97° 4'), hot spring. T. O., **M**, XIX, 151.
- Vadala (Warala), *Jhelum* (43 D/14; 32° 41' 30" : 72° 49'), salt mines. A. B. W., **M**, XIV, 176.
- Vadali, *Idar* (46 E/1; 23° 57' : 73° 2'), calc-gneiss. C. S. M., **M**, XLIV, 12, 14, 18; syenite-aplite, 38; Delhi quartzite, 81.
- Vadamadiri, *Chingleput* (66 C/3; 13° 17' : 80° 2' 30"), lateritic conglomerate. R. B. F., **M**, X, 34.
- Vadderpur, *Shimoga* (48 N/7; 14° 15' : 75° 25'), manganesc-ore. L. L. F., **M**, XXXVII, 1133.
- Vadlapudi, *Nellore* (57 N/15; 14° 18' 30" : 79° 48'), allanite. G. H. T., **R**, LII, 309.
- Vadoogapaitty (Vadugarpettai), *Trichinopoly* (58 J/13; 10° 58' : 78° 56' 30"), Utatur stage, coral-reef limestone. H. F. B., **M**, IV, 67; boulder bed, 97.
- Vadugal (Vadakal), *Chingleput* (57 P/13; 12° 54' : 79° 56'), U. Gondwana beds. R. B. F., **M**, X, 105.
- Vadur pass, *D. G. Khan* (39 J/8; 30° 10' : 70° 20'), estuarine shells, L. Siwalik. W. T. B., **M**, XX, 225.
- Vagdi, *Idar* (46 E/2; 23° 35' : 73° 10'), Aravalli schists and pegmatites. C. S. M., **M**, XLIV, 62; Delhi quartzite, 89.
- Vagesari, *Idar* (46 E/1; 23° 50' : 73° 13' 30"), quartz-porphyry. C. S. M., **M**, XLIV, 84.
- Vaghodar, *Idar* (46 E/6; 23° 36' 30" : 73° 17'), Delhi quartzite. C. S. M., **M**, XLIV, 91.
- Vailoocoorchy (Belukkurichchi), *Salem* (58 I/7; 11° 23' : 78° 15' 30"), trap dyke, fault. W. K., **M**, IV, 331.

- Vaimpully (Vempalle), *Cuddapah* (57 J/7;  $14^{\circ} 22'$  :  $78^{\circ} 27' 30''$ ), slates and limestone, Papaghni series. W. K., **M**, VIII, 159.
- Vaimsur, *Warangal* (65 C/16;  $17^{\circ} 8'$  :  $80^{\circ} 47' 30''$ ), crystalline rocks. W. T. B., **R**, V, 26.
- Vaiyampatti, *Trichinopoly* (58 J/6;  $10^{\circ} 33'$  :  $78^{\circ} 19' 30''$ ), tantalite (or columbite). T. H. H., **R**, XXXIX, 270.
- Vajrabhai, *Thana* (47 E/3;  $19^{\circ} 29' 30''$  :  $73^{\circ} 2' 30''$ ), hot springs, sulphurous. T. H. H., **R**, XXXIX, 265=Vijrabhai.
- Valaiyapatti, *Valiuputti*, *Salem* (58 I/4;  $11^{\circ} 7' 30''$  :  $78^{\circ} 14'$ ), graphic granite. W. K., **M**, IV, 338; magnesite. C. S. M., **R**, XXIX, 38.
- Valimukkam, *Ramnad* (58 K/12;  $9^{\circ} 9' 30''$  :  $78^{\circ} 39'$ ), sub-recent sandstones. R. B. F., **M**, XX, 68, 102; submerged forest, 82.
- Valivda, *Kolhapur* (47 L/3;  $16^{\circ} 25'$  :  $74^{\circ} 0'$ ), aluminous laterite. C. S. F., **M**, XLIX, 78=Radhanagri.
- Vallam, *Tanjore* (58 N/2;  $10^{\circ} 43'$  :  $79^{\circ} 3'$ ), rock-crystal. T. H. H., **R**, XXX, 159 (note)-Vellum.
- Vallanad, *Tinnerelly* (58 H/14;  $8^{\circ} 43'$  :  $77^{\circ} 53'$ ), granular quartz rock. R. B. F., **M**, XX, 25; gravel talus, 53.
- Valoor (Belur), *Salem* (58 I/6;  $11^{\circ} 42'$  :  $78^{\circ} 25'$ ), iron-ore beds. W. K., **M**, IV, 280, 283.
- Valrampur (Balarampuram), *Travancore* (58 H/3;  $8^{\circ} 25'$  :  $77^{\circ} 3'$ ), Warkalli beds. R. B. F., **R**, XVI, 27.
- Valudayur, *S. Arcot* (58 M/9;  $11^{\circ} 59'$  :  $79^{\circ} 42'$ ), Ariyalur stage, fossils. H. F. B., **M**, IV, 152; *Orbitoides*. E. V., **R**, XXXVI, 190.
- Vanavasi, *Salem* (58 E/13;  $11^{\circ} 45'$  :  $77^{\circ} 53'$ ), iron-smelting. T. H. H., **R**, XXV, 148.
- Vandioli, *Idar* (46 E/6;  $23^{\circ} 38' 30''$  :  $73^{\circ} 20'$ ), gneissose granite. C. S. M., **M**, XLIV, 65; phyllites, 96.
- Vanjeri (Vanjivanjeri), *Chingleput* (57 P/13;  $12^{\circ} 52' 30''$  :  $80^{\circ} 0'$ ), U. Gondwana conglomerate (?). R. B. F., **M**, X, 112.
- Vanji, *Rajpipla* (46 G/13;  $21^{\circ} 54'$  :  $73^{\circ} 48'$ ), marble. P. N. B., **R**, XXXVII, 186.
- Vankarum (Honkaram), *Kurnool* (57 I/10;  $15^{\circ} 34'$  :  $78^{\circ} 38'$ ), hot spring. T. O., **M**, XIX, 146.
- Vanoor, *S. Arcot* (57 P/12;  $12^{\circ} 1' 30''$  :  $79^{\circ} 44'$ ), Valudayur beds. H. F. B., **M**, IV, 157=Vanur.
- Vanta, *Idar* (46 E/6;  $23^{\circ} 36' 30''$  :  $73^{\circ} 15'$ ), Delhi quartzite. C. S. M., **M**, XLIV, 91.
- Vantadi, *Idar* (46 E/2;  $23^{\circ} 40'$  :  $73^{\circ} 12'$ ), dip-slope in Delhi quartzite. C. S. M., **M**, XLIV, 88.
- Vanur, *S. Arcot* (57 P/12;  $12^{\circ} 1' 30''$  :  $79^{\circ} 44'$ ), Valudayur stage, fossils. H. W., **R**, XXVIII, 16=Vanoor.
- Vaotim, *Goa* (48 E/14;  $15^{\circ} 36'$  :  $74^{\circ} 0'$ ), manganese-ore. L. L. F., **M**, XXXVII, 988.
- Vapanuttom (Periyavappanattam), *Salem* (58 I/4;  $11^{\circ} 11'$  :  $78^{\circ} 12'$ ), cavities in quartz. W. K., **M**, IV, 338.
- Vapoor (Veppur), *Trichinopoly* (58 M/3;  $11^{\circ} 19'$  :  $79^{\circ} 4'$ ), Trichinopoly stage, northern limit. H. F. B., **M**, IV, 122; copper-ore, 216.

- Varagapudy (Varaguppadi), *Trichinopoly* (58 I/16; 11° 9' 30" : 78° 54'), Utatur plant beds. H. F. B., **M**, IV, 44; coral-reef limestone, 57.
- Varakanhalli, *Bellary* (57 B/1; 14° 57' : 76° 1'), brecciated quartz reef (fault-rock). R. B. F., **M**, XXV, 159.
- Vareha, *Shukpur* (38 P/15; 32° 25' : 71° 58'), Salt Marl. A. B. W., **M**, XIV, 229 (Pl. xxiv); salt mine, 231, 288 (Pl. xxv)=Warcha.
- Varcha, *Sirohi* (45 D/13; 24° 48' 30" : 72° 46'), tuffs and rhyolite. E. H. P., **R**, LX, 114.
- Varthia, *Idar* (46 E/6; 23° 32' 30" : 73° 20'), steatite. C. S. M., **M**, XLIV, 104, 148; manganese-ore, 105 (fig.), 150.
- Vasni, *Idar* (46 E/1; 23° 48' : 73° 9'), Delhi quartzite. C. S. M., **M**, XLIV, 83; quartz-porphry, 126.
- Vasna, *Idar* (46 E/1; 23° 55' : 73° 0'), calc-gneiss and Idar granite. C. S. M., **M**, XLIV, 118.
- Vasna, *Rajpipla* (46 G/2; 21° 39' : 73° 12' 30"), aluminous laterite. P. N. B., **R**, XXXVII, 184—Wasna.
- Vasnal, *Jhelum* (43 D/10; 32° 43' : 72° 33'), inlier of Salt Marl. A. B. W., **M**, XIV, 55, 197 (fig.); C. S. M., **R**, XXIV, 39; E. H. P., **M**, XL, 368; L. L. F., **R**, LXV, 118.
- Vatambakam, Vautumbaicum, *Chingleput* (57 P/13; 12° 50' 30" : 79° 58' 30"), U. Gondwana beds, section. R. B. F., **M**, X, 109 (fig.); **R**, XI, 253.
- Vaturvallum, *N. Arcot* (57 P/4; 12° 6' 30" : 79° 14' 30"), granitoid gneiss. W. K., **M**, IV, 299—Vettavalam.
- Vaulavaudy (Valavandinadu), *Salem* (58 I/7; 11° 17' : 78° 20'), iron-ore beds. W. K., **M**, IV, 287.
- Vayitri, *Wynaad* (58 A/2; 11° 33' : 76° 2'), charnockite. H. H. H., **M**, XXXIII, pt. 2, 14; dolerite, petrology, 16; auriferous reef, 21.
- Vedanattam, *Tinnevely* (58 L/1; 8° 58' : 78° 9'), calcareous grit, sub-recent. R. B. F., **M**, XX, 66, 102.
- Vedullavalsa, *Vizagapatam* (65 N/11; 18° 21' : 83° 31' 30"), manganese-ore. L. L. F., **M**, XXXVII, 462, 464, 1048.
- Veerapully (Virapalle), *Cuddapah* (57 J/16; 14° 9' 30" : 78° 51' 30"), Nagari quartzites. W. K., **M**, VIII, 179.
- Veherabar, *Idar* (46 A/13; 23° 55' : 72° 53'), Idar granite. C. S. M., **M**, XLIV, 117.
- Velholi, *Thana* (47 A/14; 19° 30' : 72° 52'), hot spring. T. O., **M**, XIX, 108.
- Velampalle, *Guntur* (66 A/2; 15° 38' : 80° 0' 30"), human bones in older alluvium. R. B. F., **M**, XVI, 96.
- Vellakaputty, *Salem* (58 I/4; 11° 4' : 78° 12' 30"), iron-ore beds. W. K., **M**, IV, 286.
- Vellakotta (Vallakotai), *Chingleput* (57 P/13; 12° 53' : 79° 56'), U. Gondwana beds, section. R. B. F., **M**, X, 101 (fig.).
- Vellanad, *Travancore* (58 H/2; 8° 34' : 77° 3'), monazite with graphite. G. H. T., **R**, XLIV, 193 (Pl. xvi); cerium sulphate on graphite. LI, 157 (Pl. vii).
- Vellaramulla, *Wynaad* (58 A/3; 11° 27' : 76° 9'), auriferous reefs. W. K., **R**, VIII, 34.
- Vellaur R., *S. Arcot* (58 M/S. W.; 11° 24' : 79° 5'), 'regur', black soil, in alluvium. H. F. B., **M**, IV, 181 (fig.); W. K., **M**, IV, 252.

- Vellavi, *Rajpipla* (46 G/6;  $21^{\circ} 30'$  :  $73^{\circ} 28'$ ), chalcedony veins in trap. P. N. B., **R**, XXXVII, 173.
- Vellengoody hill, *Pudukkottai* (58 J/14;  $10^{\circ} 36' 30''$  :  $78^{\circ} 47' 30''$ ), micaceous granite-gneiss. R. B. F., **R**, XII, 146.
- Velliramalai, *Wynaad* (58 A/3;  $11^{\circ} 27'$  :  $76^{\circ} 9'$ ), charnockite. H. H. H., **M**, XXXIII, pt. 2, 14.
- Vellore, *N. Arcot* (57 P/1;  $12^{\circ} 55'$  :  $79^{\circ} 8'$ ), magnetite beds. R. B. F., **R**, XII, 193; garnetiferous leptynite and charnockite. E. H. P., **R**, LXI, 123; dunite. LXIII, 124.
- Vellum (Vallam), *Chingleput* (57 P/13;  $12^{\circ} 53' 30''$  :  $79^{\circ} 56'$ ), U. Gondwana beds, fossil wood. R. B. F., **M**, X, 103.
- Vellum, *Tanjore* (58 N/2;  $10^{\circ} 43'$  :  $79^{\circ} 3'$ ), rock-crystal and amethyst. H. F. B., **M**, IV, 167, 217; W. K., **M**, IV, 258, 370; laterite, 262—Vallam.
- Vellumpaleyam (Olaiyampalaiyam), *S. Arcot* (58 M/6;  $11^{\circ} 42' 30''$  :  $79^{\circ} 26'$ ), Cuddalore sandstone, quarries. H. F. B., **M**, IV, 171, 205.
- Vellyana, *Trichinopoly* (58 J/1;  $10^{\circ} 51'$  :  $78^{\circ} 7'$ ), anticline in gneiss. W. K., **M**, IV, 310.
- Velur (Vayalur), *S. Arcot* (58 M/6;  $11^{\circ} 33'$  :  $79^{\circ} 19'$ ), Cuddalore sandstone, quarries. H. F. B., **M**, IV, 169, 205; 'red soil', section, 186 (fig.).
- Vemavaram, *Guntur* (66 A/2;  $15^{\circ} 41'$  :  $80^{\circ} 10'$ ), U. Gondwana beds, section. R. B. F., **R**, XI, 255; **M**, XVI, 62 (fig.).
- Vemmany (Periyavenmani), *Trichinopoly* (58 M/4;  $11^{\circ} 13' 30''$  :  $79^{\circ} 3'$ ), pottery clay. H. F. B., **M**, IV, 212.
- Vemparala, *Guntur* (57 M/13;  $15^{\circ} 53' 30''$  :  $79^{\circ} 56'$ ), magnetite beds. R. B. F., **M**, XVI, 20.
- Vengurla, *Ratnagiri* (48 E/9;  $15^{\circ} 51' 30''$  :  $73^{\circ} 38'$ ), laterite. C. S. F., **M**, XLIX, 96=Vingorla.
- Venkatayapalem, *Guntur* (65 D/2;  $16^{\circ} 38'$  :  $80^{\circ} 2' 30''$ ), Kurnool series, section. R. B. F., **M**, VIII, 309 (Pl. viii, fig. 6).
- Venkatigherry, Venkatagiri, *Nellore* (57 O/9;  $13^{\circ} 57' 30''$  :  $79^{\circ} 35'$ ), Cuddapah scarp. W. K., **M**, VIII, 20 (Pl. i); red granitoid gneiss. XVI, 128.
- Venkatpur, *Wurungal* (56 N/16;  $18^{\circ} 15'$  :  $80^{\circ} 0'$ ), sandstones, Sullavai series. W. K., **M**, XVIII, 230.
- Venkatpur, *Dharnoor* (48 M/11;  $15^{\circ} 16'$  :  $75^{\circ} 37'$ ), old workings for gold. J. M. M. **R**, XXXIV, 120.
- Venpui, *Idar* (46 E/6;  $23^{\circ} 42' 30''$  :  $73^{\circ} 24'$ ), Delhi quartzite. C. S. M., **M**, XLIV, 96.
- Vepanapalli, *Salem* (57 L/2;  $12^{\circ} 42'$  :  $78^{\circ} 12'$ ), augite-norite, petrology. T. H. H., **R**, XXX, 27.
- Vera, *Idar* (46 A/13;  $23^{\circ} 57'$  :  $72^{\circ} 54'$ ), quartz veins. C. S. M., **M**, XLIV, 130.
- Verabudr Droog' (Virabhadradurgam), *Kurnool* (56 L/8;  $16^{\circ} 4'$  :  $78^{\circ} 26'$ ), conglomerate, Kistna series. W. K., **M**, VIII, 256.
- Veraghoor (Varagur), *Trichinopoly* (58 M/3;  $11^{\circ} 15'$  :  $79^{\circ} 2' 30''$ ), basal beds, Ariyalur stage. H. F. B., **M**, IV, 136.
- Veraicoopay (Varakuppai), *Trichinopoly* (58 I/16;  $11^{\circ} 1'$  :  $78^{\circ} 55' 30''$ ), *Acteonella* beds, Trichinopoly stage. H. F. B., **M**, IV, 115.
- Verakanhalli, *Bellary* (57 B/1;  $14^{\circ} 57'$  :  $76^{\circ} 0' 30''$ ), hornblende-schist, Dharwar. J. M. M., **R**, XXXIV, 112.

- Verala scarp, *Jhelum* (43 D/10; 32° 35' : 72° 37'), fresh-water springs. A. B. W., **M**, XIV, 47, 195.
- Veraungannev (Urangani), *S. Arcot* (58 I/13; 11° 55' : 78° 54' 30"), iron-ore bed, W. K., **M**, IV, 292.
- Verawal, *Kathiawar* (41 L/5; 20° 54' : 70° 22'), miolite. F. F., **M**, XXI, 128.
- Verdachelum (Vridhdachalam), *S. Arcot* (58 M/6; 11° 31' : 79° 19'), Ariyalur beds. H. F. B., **M**, IV, 24, 144; (Uddalore sandstone. W. K., **M**, IV, 259.
- Vernag, *Kashmir* (43 O/6; 33° 32' : 75° 15'), springs. R. L., **R**, XI, 42; Jurassic fossils. H. H. H., **R**, XLIV, 38.
- Vettavalam, *N. Arcot* (57 P/4; 12° 6' : 79° 14' 30"), hornblende gneiss. E. H. P., **R**, LXI, 122 = Vaturvallum.
- Vetratty, *Salem* (58 I/7; 11° 27' : 78° 25'), olivine in trap dyke. W. K., **M**, IV, 334.
- Viakhandi (Virkhandi), *Nagpur* (55 P/5; 20° 55' : 79° 26' 30"), gonditic rock. E. H. P., **R**, LXIII, 117.
- Victoria Point, *Mergui* (96 K/9; 9° 58' : 98° 33'), granite intrusion. P. N. B., **R**, XXVI, 103.
- Vijaidurg, *Ratnagiri* (47 H/6; 16° 33' : 73° 20'), aluminous laterite. C. S. F., **M**, XLIX, 95.
- Vijapar, *Idar* (46 E/6; 23° 39' 30" : 73° 21'), hornblende-schist. C. S. M., **M**, XLIV, 64; fluorspar, 66.
- Vijarai, *Kistna* (65 H/1; 16° 49' : 81° 2'). Golapilli sandstones. W. K., **M**, XVI, 217.
- Vijayanagar, *Bellary* (57 A/7; 15° 19' : 76° 28'), granite as building stone. R. B. F., **M**, XXV, 53, 200.
- Vijrabhai, *Thana* (47 E/3; 19° 29' 30" : 73° 2' 30"), hot springs. T. O., **M**, XIX, 107 = Vajrabhai.
- Viligrar (Nilagrar), *Kashmir* (43 N/7; 34° 17' 30" : 75° 20'), moraines. R. D. O., **R**, XXXI, 147.
- Villienjam, Villenjen, *Travancore* (58 D/15; 8° 22' 30" : 76° 59'), Warkilli beds. R. B. F., **R**, XVI, 27; monazite. G. H. T., **R**, XLIV, 190.
- Villia, *N. Kanara* (48 I/7; 15° 19' : 74° 25'), manganese-ore. E. H. P., **R**, LXII, 58.
- Vingorla, *Ratnagiri* (48 E/9; 15° 51' 30" : 73° 38'), laterite. C. J. W., **R**, IV, 45 = Vengurla.
- Vingur, *Thar Parkar* (40 H/7; 24° 17' : 69° 28'), Cutch earthquake, 1819, change of level. R. D. O., **M**, XLVI, 97.
- Vinjan, Vinjhan, *Cutch* (41 E/4; 23° 6' : 69° 1' 30"), earthquake, 1819. R. D. O., **M**, XLVI, 108; Gaj series, mollusca. E. V., **M**, L, 319, 396, 434.
- Vinjarai (Binjarai) *Jaisalmer* (40 N/3; 26° 30' : 71° 12'), Gondwana sandstones. R. D. O., **R**, XXI, 32.
- Vimukonda, *Guntur* (56 P/12; 16° 3' : 79° 44' 30"), copper-ore. W. K., **M**, VIII, 269; quartz veins. R. B. F., **M**, XVI, 45.
- Viper L., *Andamans* (87 A/10; 11° 40' : 92° 42'), jet coal, analysis. R. R. S., **M**, XLI, 14.
- Virallimalai, *Pudukottai* (58 J/10; 10° 36' : 78° 32' 30"), micaceous granite-gneiss. R. B. F., **R**, XII, 146.

- Virampoli, *N. Kanara* (48 I/12; 15° 13' 30" : 74° 34' 30"), manganese-ore. E. H. P., **R**, LX, 47.
- Virapaneli (Virapandi), *Coimbatore* (58 A/16; 11° 10' : 76° 58'), manganese-ore. L. L. F., **M**, XXXVII, 1032.
- Virapur, *Bellary* (57 E/4; 15° 10' : 77° 9'), dykes, porphyritic trap. R. B. F., **M**, XXV, 164.
- Viravada, *Idar* (46 E/2; 23° 36' 30" : 73° 2' 30"), hornblende in Idar granite. C. S. M., **M**, XLIV, 125; Ahmednagar sandstone, 139 (fig.).
- Viraypalle, *Kurnool* (57 I/2; 15° 32' 30" : 78° 5'), diamond. L. L. F., **R**, XLVI, 83.
- Virgal, *Shahpur* (43 D/3; 32° 27' : 72° 3' 30"), Carboniferous-Eocene, section. A. B. W., **M**, XIV, 225; alum shales, 301.
- Virjerab glacier, *Hunza* (42 P/11; 36° 20' : 75° 40'), movements of snout. K. M., **R**, LXIII, 251 (Pl. vi, 15).
- Virkhol, *N. Kanara* (48 I/11; 15° 17' : 74° 30'), manganese-ore. L. L. F., **M**, XXXVII, 649, 650.
- Visawar, *Kathiawar* (41 G/5; 21° 46' : 69° 27'), Gaj series, fauna. F. F., **M**, XXI, 118.
- Vishengarh, *Chota Udaipur* (46 F/15; 22° 28' : 73° 50' 30"), Champaner quartzites. G. V. H., **R**, LIX, 345.
- Vishnupur (Bishnupur), *Bankura* (73 M/8; 23° 4' 30" : 87° 19'), earthquake, 1897, fissures and sand-vents. R. D. O., **M**, XXIX, 325; meteorite. G. C., **R**, XLII, 266 (Pl. xxxiii); J. C. B., **M**, XLIII, 279.
- Visuni, *Thar Parkar* (40 G/15; 25° 27' : 69° 58'), meteorite. H. W-r., **R**, XLVII, 273 (Pls. xxx, xxxi).
- Visvanathanahalli, *Chitaldrug* (57 C/1; 13° 58' : 76° 11' 30"), mica. T. H. H., **M**, XXXIV, 68.
- Viswanadhapuram, *Vizagapatam* (65 N/2; 18° 30' 30" : 83° 10'), manganese-ore. L. L. F., **M**, XXXVII, 435, 464, 1048.
- Vitakiri, *Loralai* (39 G/6; 29° 41' : 69° 22'), reservoir and dam site. E. H. P., **R**, LXIII, 71.
- Vitlapuram, *S. Arcot* (57 P/12; 12° 14' : 79° 42'), olivine-norite, petrology. T. H. H., **R**, XXX, 25.
- Vitonia (Vethon) hill, *Cutch* (41 E/7; 23° 20' : 69° 20'), columnar basalt. A. B. W., **M**, IX, 206.
- Vivau, *Idar* (46 E/1; 23° 59' : 73° 2' 30"), calc-gneiss. C. S. M., **M**, XLIV, 16 (Pl. viii, figs. 3-5).
- Vizagapatam, *Madras* (65 O/6; 17° 42' : 83° 17'), earthquake, 1881, tidal wave. R. D. O., **R**, XVII, 48.
- Viziamangalam, *Coimbatore* (58 E/12; 11° 11' 30" : 77° 31' 30"), quartz-magnetite schists. C. S. M., **A. R.**, 1898, 20.
- Vizianagram, *Vizagapatam* (65 N/8; 18° 7' : 83° 25'), Artesian boring. W. K., **R**, XIX, 143; kaolin, 156; braunite. L. L. F., **M**, XXXVII, 53; analysis, 1042.
- Vizianagram hill, *Warangal* (56 O/10; 17° 42' : 79° 33'), granite-gneiss. R. B. F., **R**, XVIII, 27.
- Viziapatti, *Tinnevely* (58 H/16; 8° 12' : 77° 45'), hornblendic granite-gneiss. R. B. F., **M**, XX, 31; sub-recent limestone, 60.

- Viziarampuram, *Vizagapatam* (65 N/8 ; 18° 12' : 83° 28'), manganese-ore. L. L. F., **M**, XXXVII, 435, 464, 1048.
- Vizier (Vishar), *Chingleput* (57 P/9 ; 12° 50' : 79° 37' 30"), U. Gondwana beds. R. B. F., **M**, X, 120.
- Volcondah (Valikandapuram), *Trichinopoly* (58 I/15 ; 11° 19' 30" : 78° 55'), trap dykes. H. F. B., **M**, IV, 37 ; W. K., **M**, IV, 329 ; magnesite in travertine, 323.
- Vorkully, *Travancore* (58 D/10 ; 8° 44' : 76° 43'), lignite. R. R. S., **M**, XLI, 103 = Warkalli.
- Vulshay, *Salem* (58 I/9 ; 11° 55' : 78° 35'), iron-ore beds. W. K., **M**, IV, 280.
- Vundaraddi, *S. Arcot* (58 M/5 ; 11° 51' 30" : 79° 16'), tourmaline-granite. W. K., **M**, IV, 338.
- Vungapaud (Vengapadu), *Kurnool* (57 M/2 ; 15° 30' : 79° 8' 30"), marble. W. K., **M**, VIII, 239.
- Vylapaudy (Vayalappadi), *Trichinopoly* (58 M/3 ; 11° 20' 30" : 79° 7'), Utatur beds, northern limit. H. F. B., **M**, IV, 95.
- Waboye, *Mandalay* (93 C/5 ; 21° 57' : 96° 23'), graptolite beds. T. D. L., **M**, XXXIX, pt. 2, 168 (fig. 5).
- Wabyudaung, *Ruby Mines* (93 B/1 ; 22° 52' : 96° 6'), graphite. T. D. L., **M**, XXXIX, pt. 2, 41.
- Wad (E.), *Kalat* (35 M/1 ; 27° 53' : 67° 13'), Cretaceous fossils. E. V., **R**, XXXVI, 180.
- Wad (W.), *Kalat* (35 I/7 ; 27° 20' 30" : 66° 23'), Jurassic anticline. E. V., **R**, XXXVIII, 193.
- Wadawkwin, *Henzada* (85 O/2 ; 17° 42' : 95° 1'), graphite. M. S., **R**, XLI, 264.
- Waddakarai hill, *Tinnevely* (58 G/15 ; 9° 18' : 77° 56'), garnetiferous gneiss. R. B. F., **M**, XX, 23.
- Wadhwan, *Kathianwar* (41 N/10 ; 22° 42' : 71° 41'), Cretaceous sandstones. F. F. **M**, XXI, 84.
- Wadla, *Indore* (46 O/3 ; 21° 28' : 75° 11'), hot spring. T. O., **M**, XIX, 134.
- Wadtol, *Idar* (46 A/13 ; 23° 57' 30" : 72° 54' 30"), quartz veins. C. S. M., **M**, XLIV, 130.
- Wagardo, *Amherst* (94 H/12 ; 16° 0' 30" : 97° 42'), iron slags. W. R. Criper, **R**, XVIII, 153.
- Waghapadar, *Cutch* (41 A/11 ; 23° 29' : 68° 45'), Khirthar foraminifera. W. L. F. N., **R**, LIX, 132-150=Wag-ka-pudder.
- Waghole, *Chanda* (56 M/13 ; 19° 58' 30" : 79° 47'), augite-norite, charnockite series. K. H., **R**, LV, 256.
- Waghulkhore (Vagalkhod), *Rajpipla* (46 G/2 ; 21° 35' 30" : 73° 13'), Eocene laterite and limestone. W. T. B., **M**, VI, 362.
- Waghzar, *Afghanistan* (38 A/16 ; 35° 5' : 68° 52'), crinoid limestone. H. H. H., **M**, XXXIX, 25, 48.
- Wag-ka-puddur, *Cutch* (41 A/11 ; 23° 29' : 68° 45'), sub-nummulitic and nummulitic beds, sections. A. B. W., **M**, IX, 71, 256=Waghapadar.
- Wagon, *Tavoy* (95 J/8 ; 14° 11' : 98° 23'), cassiterite. T. H. H., **R**, XXXVIII, 58 ; wolfram mines. J. C. B., **R**, L, 112 ; **M**, XLIV, 295, 297, 325.

- Wagora, *Chhindwara* (55 K/14 ; 21° 36' : 78° 48'), rhodonite. L. L. F., **M**, XXXVII, 141 ; dannemorite ?, 147 ; spessartite, 164, 168 ; gondite, 794 ; **R**, XXXIII, 213.
- Wagyaung, *Insein* (94 C/3 ; 17° 23' : 96° 8' 30"), reservoir site. E. H. P., **R**, LXII, 38 ; Pegu-Irrawadian boundary, 116.
- Wahali, *Jhelum* (43 H/1 ; 32° 45' 30" : 73° 2'), glaciated boulder. A. B. W., **R**, X, 124 ; W. T., **R**, X, 224.
- Wahi Pandi (? Undh), *Larkhana* (35 N/2 ; 26° 40' : 67° 10'), hot spring. T. O., **M**, XIX, 114.
- Wahkaji, *Khasi Hills* (78 O/7 ; 25° 22' : 91° 16'), mica. R. W. P., **R**, LV, 154.
- Wahmlein (Umlein), *Khasi Hills* (78 O/16 ; 25° 13' 30" : 91° 52'), nummulitite limestone. P. N. B., **A. R.**, 1901, 21.
- Wai, *Satara* (47 G/13 ; 17° 57' : 73° 53'), manganese-ore. L. L. F., **M**, XXXVII, 662.
- Wairagarh, *Chanda* (64 D/3 ; 20° 26' : 80° 5'), old diamond workings. L. L. F., **R**, L, 282.
- Wajra Karur, *Anantapur* (57 E/8 ; 15° 1' 30" : 77° 23'), volcanic neck, diamond field. R. B. F., **R**, XIX, 109 ; XXII, 39 ; L. L. F., **R**, LXV, 39 ; 'pipe-rock', petrology. P. L., **R**, XXIII, 69 (Pl. x) ; analysis. G. S. L., **R**, XXIII, 90.
- Wajru, *Kashmir* (43 O/5 ; 33° 51' 30" : 75° 18'), Silurian beds. C. S. M., **R**, XL, 214.
- Wakema, *Myaungmya* (84 P/2 ; 16° 36' 30" : 95° 11'), Pegu earthquake, 1930. J. C. B., **R**, LXV, 239.
- Wakhjir Pass, *Afghanistan* (42 K/12 ; 37° 6' : 74° 31'), Sarikol Shales. H. H. H., **R**, XLV, 300.
- Waki (Vaki), *Kolhapur* (47 L/3 ; 16° 17' : 74° 1'), aluminous laterite. H. C. J., **R** LIV, 425.
- Wakna, *Simla* (53 E/4 ; 31° 0' 30" : 77° 5'), Blaini and Simla beds. C. A. M., **R**, X, 206 ; G. E. P., **M**, LIII, 83.
- Wakting Jan, *Naga Hills* (83 J/14 ; 26° 42' : 94° 53'), coal seams. R. R. S., **R**, XXXIV, 221, 236.
- Walajah Road, *N. Arcot* (57 P/5 ; 12° 58' : 79° 22'), quartz-schists. E. H. P., **R**, LXII, 149.
- Walapaudy (Valappadi), *S. Arcot* (58 I/9 ; 11° 47' : 78° 44' 30'), iron-ore bed. W. K., **M**, IV, 289.
- Walla, *Zhob* (39 E/7 ; 31° 29' 30" : 69° 18'), igneous rocks. H. H. H., **R**, LI, 11.
- Wallabgarh (Vallafgad), *Belgaum* (47 L/7 ; 16° 17' : 74° 28'), volcanic ash beds. R. B. F., **M**, XII, 183 ; laterite, 206 ; C. S. F., **M**, XLIX, 72.
- Wallair (Olavattur) hill, *Malabar* (49 M/16 ; 11° 11' : 75° 56'), basic dyke. P. L., **M**, XXIV, 216.
- Walliputty (Valavetti), *N. Arcot* (57 P/4 ; 12° 4' : 79° 8'), granitoid gneiss. W. K., **M**, IV, 298.
- Walmanni (Olamani) *Belgaum* (48 I/6 ; 15° 41' 30" : 74° 24'), Intertrappean gravel. R. B. F., **M**, XII, 197.
- Waloria, *Sirohi* (45 H/2 ; 24° 39' : 73° 1'), granite. E. H. P., **R**, LIX, 103.
- Walren, *Idar* (45 H/4 ; 24° 5' : 73° 6' 30"), calc-gneiss and biotite-gneiss, contact. C. S. M., **M**, XLIV, 23.



- Waltair, *Vizagapatam* (65 O/6; 17° 44' : 83° 20'), red sands. W. K., **R**, XIX, 147; phlogopite, asterism. T. H. H., **M**, XXXIV, 23 (figs.), 67; monazite sand. G. H. T., **R**, XLIV, 195.
- Wam Tangi, *Sibi* (39 C/1; 29° 58' : 68° 2'), Cretaceous beds. C. L. G., **R**, XXVI, 120, 146.
- Wamoj, *Idar* (46 E/2; 23° 35' : 73° 4'), Ahmednagar sandstone. C. S. M., **M**, XLIV, 138.
- Wamyaung, *Ramri I.* (85 E/12; 19° 13' : 93° 34'), mud volcano. E. H. P., **M**, XL, 193.
- Wan Hapalam, *S. Shan States* (93 G/6; 21° 32' : 97° 27'), monazite. H. C. J., **R**, LI, 156.
- Wan-chia-tien, *Yunnan* (92 P/1; 24° 47' : 99° 6'), Permo-Carboniferous beds. J. C. B., **R**, XLVII, 257.
- Wandalli, *Raichur* (56 D/12; 16° 13' 30" : 76° 44' 30"), old workings for gold. R. B. F., **R**, XXII, 35=Wondalli.
- Wandiwash, *N. Arcot* (57 P/10, 12° 30' 30" : 79° 36'), hornblendic ferruginous rocks. R. B. F., **R**, XII, 193; building stone, 207.
- Wandur, *Malabar* (58 A/4; 11° 11' 30" : 76° 14'), hematite-gneiss. P. L., **M**, XXIV, 214.
- Wanga, *Thar Parkar* (40 H/2; 24° 37' : 69° 14' 30"), Indus flood, 1826. R. D. O., **M**, XLVI, 17 (note).
- Wangat, *Kashmir* (43 J/15; 34° 20' : 74° 57'), limestone bands in gneiss. R. L., **R**, XII, 17; **M**, XXII, 230; granite. C. S. M., **R**, XLV, 135.
- Wangi, *Sibi* (34 N/16; 30° 14' : 67° 47'), Nummulitic series. C. L. G., **R**, XXVI, 145.
- Wangtu, *Bashahr* (53 I/2; 31° 32' : 78° 0' 30"), 'central gneiss' and albite (oligoclase)-granite. F. S., **M**, V, 12 (fig.); C. A. M., **R**, X, 219; XVII, 57, 58; F. R. M., **R**, XIV, 238; R. L., **M**, XXII, 266; R. D. O., **R**, XXI, 150; diorite dyke. C. A. M., **R**, XIX, 72 (Pl. ii); fluor-spar. F. R. M., **M**, V, 166; beryl, 168; tourmaline, 171 (Pl. ii, fig. 2); muscovite, 169; T. H. H., **M**, XXXIV, 69.
- Wankringi (Wankarind), *Kashmir* (43 O/6; 33° 32' : 75° 26'), conglomerate, ? Triassic. R. L., **R**, XI, 58.
- Wanla, *Ladakh* (52 B/16; 34° 15' : 76° 50'), Tertiary conglomerate altered by trap. R. L., **R**, XIII, 47; **M**, XXII, 117; orinoidal limestone, 177; iron works, 335.
- Wannur (Vanur), *Belgaum* (48 I/13; 15° 58' : 74° 49'), Dharwar inlier. R. B. F., **R**, XXI, 43.
- Wantawng, *S. Shan States* (93 G/9; 21° 55' : 97° 39' 30"), spherulitic rhyolite. T. D. L., **M**, XXXIX, pt. 2, 58.
- Want-tien *Yunnan* (92 P/6; 24° 33' : 99° 21'), Kao-liang beds. J. C. B., **R**, XLVII, 219.
- Wantmuri, (Vantmari), *Belgaum* (47 L/12; 16° 6' : 74° 35'), L. Kaladgi beds. R. B. F., **M**, XII, 92.
- Wantra, *Idar* (46 E/2; 23° 37' : 73° 5'), micro-granite. C. S. M., **M**, XLIV, 124 (Pl. xiv, fig. 3); Ahmednagar sandstone, 138 (fig.).
- Wapung (Bapung), *Jaintia Hills* (83 C/7; 25° 25' : 92° 18'), coal seam. P. N. B., **A. R.**, 1902, 18; R. R. S., **M**, XLI, 29.

- Warai, *Dir* (43 A/4; 35° 0' : 72° 2'), granite. H. H. H., **R**, XLV, 276.
- Waran valley, *Tirah* (38 K/13; 33° 48' : 70° 54'), Eocene beds. H. H. H., **M**, XXVIII, 100; Cretaceous fossils, 104.
- Warangal, *Hyderabad* (56 O/9; 17° 57' : 79° 37'), rose-quartz. E. H. P., **R**, LII, 288.
- Waraora hill, *Savantvadi* (48 E/9; 15° 53' : 73° 42'), porphyritic syenite. R. B. F., **M**, XII, 66.
- Waraseoni, *Balaghat* (64 C/1; 21° 45' 30" : 80° 2' 30"), Chilpi Ghat beds. L. L. F., **M**, XXXVII, 694; H. H. H., **R**, XLVII, 38.
- Warcha, *Shahpur* (38 P/15; 32° 25' : 71° 58'), potash salt. M. S., **R**, L, 45, 53, 94 (Pls. vi, vii); rock-salt. E. H. P., **R**, LX, 51; Saline series. C. S. F., **R**, LXI, 168, 179 (Pl. xv); Permo-Carboniferous beds, sections and fauna. F. C. R., **R**, LXII, 412 (Pls. x-xiii)=Varcha.
- Wardha, R., *Chanda* (55 L/S. E.; 20° 10' : 78° 58'), coalfield. W. T. B., **R**, I, 23; T. O., **R**, II, 94; III, 45; T. W. H. H., **M**, XIII, pt. 1 (Pls. i-iii); R. R. S., **M**, XLI, 87.
- Wardwan (Marau), R., *Kashmir* (43 O/N. E.; 33° 33' : 75° 47'), Carboniferous-Trias, section. R. L., **M**, XXII, 150 (Pl. iii, fig. 3).
- Waregaon, *Nagpur* (55 O/7; 21° 20' : 79° 25'), rhodonite. L. L. F., **M**, XXXVII, 141; spessartite, 170-4 (figs. & Pl. vii); manganese-ore, 929.
- Warimagiri, *Garo Hills* (78 K/7; 25° 21' : 90° 26'), Tertiary fossils. T. D. L., **R**, XX, 42.
- Warjhor, Warjiri hill, *Balaghat* (64 C/5; 21° 57' : 80° 23'), aluminous laterite, analyses. W. R. D., **R**, XXXVII, 214; C. S. F., **M**, XLIX, 130.
- Warkalli, Warkilli (Varkallai), *Travancore* (58 D/10; 8° 44' : 76° 43'), lignite beds. W. K., **R**, XV, 92, 96; monazite. G. H. T., **R**, XLIV, 190=Vorkully.
- Warora, *Chanda* (55 P/4; 20° 14' : 79° 0'), coalfield. T. W. H. H., **M**, XIII, 23 (Pl. ii); R. R. S., **M**, XLI, 88; abandonment of colliery. **R**, XXXIV, 132; experiments in iron-smelting. T. W. H. H., **M**, XIII, 141; coal, analyses. G. S. L., **R**, XXX, 258; fire-clay. L. L. F., **R**, L, 282=Wurora.
- Warorband, *Drug* (64 C/16; 21° 3' 30" : 80° 50'), igneous rocks, pre-Vindhyan. C. L. G., **R**, XXIX, 5=Warraband and Worar.
- Warpani, *Nagpur* (55 K/14; 21° 34' 30" : 78° 58'), manganese-ore. L. L. F., **M**, XXXVII, 842.
- Warraband, *Drug* (64 C/16; 21° 3' 30" : 80° 50'), Vindhyan boundary. V. B., **R**, X, 179=Warorband and Worar.
- Warrabum, *Bhamo* (92 H/11; 24° 22' : 97° 43'), Burma earthquake, 1912. J. C. B., **M**, XLII, 56.
- Warratsgal (Varchgal), *Mudhol* (47 P/8; 16° 8' : 75° 21'), L. Kaladgi limestone. R. B. F., **M**, XII, 125.
- Warrior hill (Varakur Malai), *N. Arcot* (57 P/4; 12° 7' : 79° 2'), iron-ore bed. W. K., **M**, IV, 291.
- Warru (Wanik) Kuss, *Shahpur* (43 D/7; 32° 29' : 72° 16'), anticline, Saline series-Eocene. A. B. W., **M**, XIV, 213 (Pl. xxii, fig. 38).
- Warsar, *Cutch* (41 A/15; 23° 21' : 68° 46' 30"), Gaj series, mollusca. E. V., **M**, L, 12, 53, 51, etc.
- Wasan, *Idar* (46 A/13; 23° 56' 30" : 72° 56'), biotite-gneiss. C. S. M., **M**, XLIV, 23, 31; pyroxene-rock, 73.

- Wasawad, *Kathiawar* (41 O/1; 21° 50' : 71° 1' 30"), trap dykes of two periods. F. F., **M**, XXI, 102.
- Wasna, *Baroda* (46 F/12; 22° 7' : 73° 45'), Cretaceous sandstone. W. T. B., **M**, VI, 334.
- Wasna, *Rajpipla* (46 G/2; 21° 39' : 73° 12' 30"), Eocene laterite. W. T. B., **M**, VI, 360=Vasna.
- Watangi (Vatangi), *Belgaum* (47 L/8; 16° 4' 30" : 74° 16'), L. Kaladgi beds. R. B. F., **M**, XII, 92.
- Watapalam (Ottappalam), *Malabar* (58 B/5; 10° 47' : 76° 23'), valley laterite. P. L., **M**, XXIV, 227 (Pl. vi, fig. 17).
- Watekolli (Ivatokallu), *Coorg* (48 P/11; 12° 20' 30" : 75° 38' 30"), norite. T. H. H., **A. R.**, 1898, 30.
- Watta Kotai, *Travancore* (58 H/12; 8° 7' : 77° 34'), raised beach. R. B. F., **R**, XVI, 31.
- Wattai (Ottai), *S. Arcot* (57 P/12; 12° 0' 30" : 79° 44'), Cretaceous beds. H. W., **R**, XXVIII, 16.
- Wattaloor (Vattaluru), *Cuddapah* (57 N/4; 14° 6' : 79° 9'), Pullampet limestone. W. K., **M**, VIII, 205.
- Wattampolliam, *S. Arcot* (57 P/16; 12° 1' 30" : 79° 47'), Valudayur stage, fossils. H. F. B., **M**, IV, 157, 159.
- Watu, *Myitkyina* (92 G/10; 25° 39' : 97° 31'), lacustrine beds (?), auriferous. C. L. G., **R**, XXV, 128; spinel, 130.
- Waturgu (Watakul), *Ladakh* (43 N/15; 34° 25' : 75° 50'), Tertiary beds. R. L., **R**, XIV, 18.
- Waumyconda (Vami Konda), *Kurnool* (56 P/7; 16° 18' : 79° 27'), Irlakonda quartzites. W. K., **M**, VIII, 257; reduplication of beds, 260 (figs.).
- Waw, *Pegu* (94 C/11; 17° 27' : 96° 40' 30"), water-supply. E. H. P., **R**, LXIII, 58.
- Wayonbok, *Shwelo* (84 M/8; 23° 11' 30" : 95° 26' 30"), Irrawadian beds. L. L. F., **R**, LXV, 94.
- Wezirabad, *Gujranwala* (43 L/3; 32° 27' : 74° 7'), Kangra earthquake, 1905. C. S. M., **M**, XXXVIII, 164.
- Weean (Wuyan), *Kashmir* (43 J/16; 34° 1' 30" : 74° 58'), Permo-Carboniferous beds. C. S. M., **R**, XXXVII, 308=Wian.
- Wei-ning Chou, *Kuei-chou* (110 B/1; 26° 52' : 104° 14' 30"), copper mines. J. C. B., **M**, XLVII, 100.
- Weir, *Bharatpur* (54 E/4; 27° 1' : 77° 10'), shales and quartzites, Alwar series. C. A. H., **R**, X, 87=Wer.
- Wei-sha, *Yunnan* (101 F/2; 26° 35' : 101° 1'), Permo-Triassic beds. J. C. B., **R**, LIV, 328.
- Wei-yuan T'ing (Ching-ku Hsien), *Yunnan* (102 A/10; 23° 30' 30" : 100° 43'), Permo-Triassic beds. J. C. B., **R**, LIV, 310.
- Wekchiba, *Pakokku* (84 J/4; 22° 4' : 94° 5'), L. Siwalik fossils. E. H. P., **R**, LVI, 42.
- Welaung, *Myingyan* (84 O/8; 21° 9' : 95° 23' 30"), Irrawadian beds. E. H. P., **R**, LIX, 72.
- Wer, *Bharatpur* (54 E/4; 27° 1' : 77° 10'), shales and quartzites, Alwar series. A. M. H., **R**, XLVIII, 192=Weir.

- Werkap (Warkup), *Chitral* (42 D/7; 36° 21' : 72° 22'), U. Devonian fossils. E. H. P., **R**, LVI, 47.
- Wetchok, *Magwe* (84 P/3; 20° 26' : 95° 12'), anticline, Pegu series. E. H. P., **R**, XXXVI, 286 (Pls. xl-xlii); **M**, XL, 137.
- Wetmasok, *Wetmasut*, *Magwe* (84 L/15; 20° 19' 30" : 94° 55' 30"), anticline, Pegu series. H. H. H., **R**, XLI, 73; vertebrate fossils. E. H. P., **M**, XL, 36.
- Wotpyu, *Shwebo* (84 N/1; 22° 49' 30" : 95° 11'), basalt quarries. E. H. P., **R**, LXIII, 30.
- Wettigon, *Prome* (85 N/5; 18° 57' 30" : 95° 21'), Irrawadian clays. W. T., **M**, X, 257.
- Wetwin, *Mandalay* (93 B/12; 22° 6' : 96° 36'), Devonian shales. T. D. L., **M**, XXXIX, pt. 2, 241, 336; iron-ore, 375; P. N. D., **A. R.**, 1900, 122; J. C. B., **R**, LXI, 185 (Pl. xix); coal seams, analyses. C. S. M., **R**, XLV, 112.
- Whaliat (Valia), *Rajpipla* (46 G/2; 21° 34' : 73° 13'), Eocene laterite and limestone. W. T. B., **M**, VI, 363.
- Wian, *Kashmir* (43 J/16; 34° 1' 30" : 74° 58'), Permo-Carboniferous beds. R. L., **R**, XIV, 30; hot spring. **M**, XXII, 42=Weean.
- Wijjian (Bijian), *Hazara* (43 C/13; 33° 50' 30" : 72° 55'), Cretaceous fossils. G. C., **R**, LIX, 406.
- Wikarie, *Mewar* (45 H/2; 24° 42' 30" : 73° 13'), basalt and monzonite, Delhi system. L. L. F., **R**, LXV, 137.
- Wilson I., *Andamans* (86 D/16; 12° 8' : 92° 59'), *Lepidocyclus* limestone. E. R. G., **R**, LIX, 223.
- Wingnur, *Chanda* (65 A/1; 19° 46' : 80° 12'), iron-ore. H. H. H., **R**, XLI, 71.
- Wizmich, *Chitral* (42 D/7; 36° 29' : 72° 25'), orpiment mines. L. L. F., **R**, LIV, 17.
- Woblapur, *Bijapur* (47 P/8; 16° 1' : 75° 19'), L. Kaladgi shales. R. B. F., **M**, XII, 110.
- Wodangi, *Vizagapatam* (65 N/3; 18° 22' : 83° 8'), rhodonite. L. L. F., **M**, XXXVII, 1110.
- Wokha, *Naga Hills* (83 J/8; 26° 6' : 94° 15' 30"), earthquake, 1897, sounds. R. D. O., **M**, XXIX, 194; Disang shales. H. H. H., **R**, XL, 286.
- Wolai Hka, *Myitkyina* (92 C/12; 25° 8' : 96° 40'), building stone. E. H. P., **R**, LXIII, 29.
- Won (Wunywa), *Minbu* (85 I/5; 19° 55' : 94° 22'), Chin shales and dolerite dykes. H. H. H., **R**, XXIX, 75.
- Wondalli, *Raichur* (56 D/12; 16° 13' 30" : 76° 44' 30"), goldfield. T. H. H., **R**, XXXIII, 93=Wandalli.
- Wonypenta (Varipenta), *Cuddapah* (57 J/13; 14° 47' : 78° 47'), old lead mines. W. K., **M**, VIII, 275.
- Woraguram, *Karimnagar* (65 B/2; 18° 41' 30" : 80° 14'), Kota fish beds. W. K., **R**, XIII, 19.
- Worar, *Drug* (64 C/16; 21° 3' 30" : 80° 50'), iron-ore. P. N. B., **R**, XX, 168 =Warorband and Warraband.
- Worradamodi, *Ganjam* (74 E/2; 19° 36' : 85° 7'), crystalline limestone. F. H. S., **A. R.**, 1900, 155.
- Wudaoli, *Ratnagiri* (47 G/1; 17° 56' : 73° 11'), hot spring. T. O., **M**, XIX, 106.

- Wuddyralla (Vaddirala), *Cuddapah* (57 J/5; 14° 58' 30" : 78° 15'), hot spring. T. O., **M**, XIX, 147.
- Wulandikonda (Ulindakonda), *Kurnool* (57 E/14; 15° 38' 30" : 77° 58' 30"), hot spring. T. O., **M**, XIX, 147.
- Wu-lung-tung, *Yunnan* (101 K/6; 25° 33' : 102° 24'), Permian limestone. J. C. B., **R**, XLIV, 105.
- Wumpo, *Tavoy* (95 J/3; 14° 23' : 98° 9'), galena. J. C. B., **M**, XLIV, 221.
- Wun, *Yeotmal* (55 L/16; 20° 3' : 78° 57'), coalfield. T. W. H. H., **M**, XIII, 38, 74 (Pl. ii); R. R. S., **M**, XLI, 89; steatite. L. L. F., **R**, L, 296.
- Wundwin, *Meiktila* (93 C/4; 21° 6' : 96° 2'), reservoir site. E. H. P., **R**, LXII, 47.
- Wuniaw Hka, *Myitkyina* (92 K/1; 26° 0' : 98° 7'), crystalline limestone. M. S., **R**, LIV, 406.
- Wunna, *Mergui* (95 K/11; 13° 18' : 98° 40'), wolfram and stibnite. J. C. B., **R**, L, 118.
- Wuntho, *Burma* (84 M/9; 23° 54' : 95° 41'), volcanic ash beds. F. N., **R**, XXVII, 117; E. H. P., **M**, XL, 46; Burma earthquake, 1912. J. C. B., **M**, XLII, 58.
- Wurgam (Vadgam), *Rajpipla* (46 G/13; 21° 50' : 73° 47'), Cretaceous inlier, section. W. T. B., **M**, VI, 338.
- Wurolee (Wadholi), *Chanda* (56 M/9; 19° 46' 30" : 79° 42'), pyroxenite, charnockite series. K. H., **R**, LV, 256.
- Wurranpathri, *Punch* (43 K/5; 33° 51' 30" : 74° 19' 30"), quartz vein. D. N. W., **M**, LI, 225.
- Wurra (Varar) hill, *Cutch* (41 E/11; 23° 21' : 69° 34'), columnar basalt. A. B. W., **M**, IX, 204.
- Wurora, *Chanda* (55 P/4; 20° 14' : 79° 0'), borings for coal. T. O., **R**, IV, 5 = Warora.
- Wu-ting Chou, *Yunnan* (101 K/6; 25° 31' 30" : 102° 25'), M. Carboniferous beds. J. C. B., **R**, XLIV, 104.
- Wyl (Wayul), *Kashmir* (43 O/6; 33° 34' : 75° 21'), Carboniferous rocks, anticline. R. L., **R**, XI, 58.
- Wyre (Awair), *Mandi* (53 A/13; 31° 59' : 76° 49'), Himalayan series. H. B. M., **M**, III, pt. 2, 59.
- Yadakee (Yadiki), *Anantapur* (57 E/16; 15° 3' : 77° 52' 30"), shales and traps, Tadpatri stago. W. K., **M**, VIII, 187.
- Yadwad, *Belgaum* (47 P/4; 16° 14' 30" : 75° 11'), L. Kaladgi limestone and shales. R. B. F., **M**, XII, 124; Intertrappean gravel, 196.
- Yaelloor (Eleyattur), *S. Arcot* (58 I/10; 11° 42' : 78° 42' 30"), iron-ore bed. W. K., **M**, IV, 294.
- Yagyi, *L. Chindwin* (84 J/11; 22° 28' : 94° 40'), oil seepage. E. H. P., **M**, XL, 144; **R**, LXII, 60.
- Yakhdan, *Chitral* (42 D/14; 36° 45' : 72° 56'), crinoid limestone. H. H. H., **R**, XLV, 289.
- Yakh dara, *Afghanistan* (38 B/13; 34° 55' : 68° 49'), Tertiary beds. H. H. H., **M**, XXXIX, 49.

- Ya-kou-tzu, *Yunnan* (92 O/14; 25° 37' : 99° 55'), quartzites and shales, Kao-liang system. J. C. B., **R**, XLVII, 240.
- Yalep, *Tibet* (71 L/3; 28° 23' 30" : 86° 8'), Permo-Triassic limestone. A. M. H., **R**, LIV, 232.
- Yaliyur, *Mysore* (57 D/14; 12° 30' 30" : 76° 49'), mica. T. H. H., **M**, XXXIV, 68.
- Yallamanda (Ellamanda), *Guntur* (65 D/4; 16° 11' : 80° 3' 30'), 'kankar' (travertine). R. B. F., **M**, XVI, 99.
- Yallapur, *Bellary* (48 N/13; 14° 50' : 75° 55'), enstatite-rock. R. B. F., **M**, XXV, 178.
- Yambung, *Abor Hills* (82 P/4; 28° 10' : 95° 1' 30"), Volcanic series. J. C. B., **R**, XLII, 248.
- Yamdrok Tso, *Tibet* (77 L/N. E.; 28° 56' : 90° 50'), lake basin. H. H. H., **M**, XXXVI, 132 (fig. & Pl. vii); dyke-rocks, 161, 179, 189.
- Yamethin, *Burma* (93 D/3; 20° 26' : 96° 9'), Burma earthquakes, 1912. J. C. B., **M**, XLII, 53, 121; water-supply. F. H. P., **R**, LIX, 62.
- Yamon, *Merqui* (95 L/12; 12° 14' : 98° 44'), tin-ore. T. W. H. H., **R**, XXII, 200; T. H. H., **R**, XXXVII, 41.
- Yamutmaw, *Hukawng* (92 B/12; 26° 11' : 96° 31'), brine spring. L. L. F., **R**, LXV, 63.
- Yan (Ayan), *Simla* (53 E/4; 31° 1' : 77° 10'), talc-schist, Chail series. G. E. P., **M**, LIII, 90.
- Yandoon, *Ma-Ubin* (85 O/12; 17° 3' : 95° 38'), earthquake, 1897, time record. R. D. O., **M**, XXIX, 67=Nioungdon and Nyong-don.
- Yang-hsing-ch'uan, *Yunnan* (101 L/6; 24° 41' : 102° 20'), iron mine. J. C. B., **M**, XLVII, 95.
- Yangi dawan, *Russian Turkestan* (42 G/13; 37° 50' : 73° 47'), Pamir limestone; H. H. H., **R**, XLV, 313.
- Yangintaung, *Mandalay* (93 C/1; 21° 59' : 96° 10'), limestone. G. E. G., **A. R.**, 1898, 53.
- Yang-lin, *Yunnan* (101 O/4; 25° 13' : 103° 2'), M. Carboniferous beds. J. C. B., **R**, XLIV, 103; Pleistocene beds, 115.
- Yangpa, *Bashahr* (53 I/2; 31° 37' : 78° 2'), kyanite in gneiss. F. R. M., **M**, V, 171=Yungpa.
- Yang-pi, *Yunnan* (92 O/14; 25° 39' : 99° 59' 30"), Red beds, Permian. J. C. B., **R**, XLVII, 240.
- Yanmazu, *Tavoy* (95 J/8; 14° 9' : 98° 21'), wolfram. J. C. B., **M**, XLIV, 210, 285; scheelite, 212; cassiterite, 216.
- Yantheik (Yanthitshe), *Ramri I.* (85 E/16; 19° 9' : 93° 53'), limestone. F. R. M., **R**, XI, 192, 221.
- Yao La, *Tibet* (71 L/1; 28° 49' : 86° 1'), ferruginous sandstone, ? Danian. A. M. H., **R**, LIV, 225.
- Yao-chou, *Kuei-chou* (110 B/1; 26° 46' : 104° 13'), copper mine. J. C. B., **M**, XLVII, 122.
- Yao-kuan, *Yunnan* (92 P/6; 24° 35' 30" : 99° 15'), Ordovician beds. J. C. B., **R**, XLVII, 259.
- Yao-wu-shan, *Yunnan* (92 K/11; 25° 25' : 98° 31'), andesite, petrology. R. C. B., **R**, XLIII, 225.

- Yapu, *Tavoy* (95 J/1 ; 14° 51' 30" : 98° 3'), limestone, Mergui series. J. C. B., **M**, XLIV, 183; tourmaline-pegmatite, 191.
- Yarapet (Erpedu), *Chittoor* (57 O/10; 13° 41' 30" : 79° 36'), Cuddapah boundary fault. W. K., **M**, XVI, 156.
- Yarkand, *E. Turkestan* (51 F/7 ; 38° 25' : 77° 16'), loess. F. S., **R**, VII, 50.
- Yarkand Rimo glacier, *Ladakh* (52 E/6; 35° 30' : 77° 30'), condition in 1926. K. M., **R**, LXIII, 275.
- Yaru Chu, *Tibet* (77 D/4; 28° 12' : 88° 0'), glaciation. H. H. H., **R**, XXXII, 167; catchment area. **M**, XXXVI, 129.
- Yasik, *Tibet* (77 K/8; 29° 8' : 90° 24'), origin of lake. H. H. H., **M**, XXXVI, 134.
- Yasin, *N. W. F. Prov.* (42 H/7; 36° 22' : 73° 20'), hippuritic limestone. H. H. H., **R**, XLV, 295.
- Yataung hill, *S. Shan States* (93 D/9; 20° 59' : 96° 35'), copper-ore. C. S. M., **A. R.**, 1900, 150.
- Yator (Vutukuru), *Nellore* (57 N/12; 14° 14' : 79° 44' 30"), meteorite. J. C. B., **M**, XLIII, 282.
- Yatung, *Tibet* (78 A/15; 27° 29' : 88° 54' 30"), earthquakes: Assam, 1897. R. D. O., **M**, XXIX, 38; sounds, 193; Srimangal, 1918; M. S., **M**, XLVI, 34.
- Yaunggwin, *Ruby Mines* (93 B/9; 22° 53' : 96° 32'), granite dykes. T. D. L., **M**, XXXIX, pt. 2, 47.
- Yaungwa (Yanngwa), *Mergui* (96 I/16; 11° 6' 30" : 98° 49'), tin-ore. T. H. H., **R**, XXXVII, 40.
- Yaw R., *Pakokku* (84 K/7; 21° 18' : 94° 19'), coalfield. G. C., **R**, XLIV, 163 (Pls. v-xii).
- Yawnghwe, *S. Shan States* (93 D/14; 20° 39' 30" : 96° 56'), earthquakes: Burma, 1912; J. C. B., **M**, XLII, 43; aftershocks, 130; Pegu, 1930. **R**, LXV, 244.
- Yazhgil glacier, *Hunza* (42 P/7; 36° 24' : 75° 22'), movements of snout. K. M., **R**, LXIII, 246 (Pl. vi, 13).
- Ye, *Amherst* (95 E/16; 15° 15' : 97° 51'), wolfram. J. C. B., **R**, L, 103; **M**, XLIV, 210.
- Ye chaung, *Amherst* (95 I/4; 15° 6' : 98° 6'), conglomerate, Mergui series. E. H. P., **R**, LXII, 99.
- Yebin, *N. Shan States* (93 B/15; 22° 21' : 96° 51' 30"), Plateau Limestone, analyses. T. D. L., **M**, XXXIX, pt. 2, 188.
- Yebok, *S. Shan States* (93 D/9; 20° 49' 30" : 96° 35'), sulphur manufacture. C. S. M., **A. R.**, 1900, 152.
- Yebokson, *S. Shan States* (93 D/5; 20° 48' 30" : 96° 21'), gneiss. C. S. M., **A. R.**, 1900, 129.
- Ye-bu, *Amherst* (94 L/2; 16° 33' : 98° 6' 30"), hot spring, saline. T. O., **M**, XIX, 152.
- Yebu Taung, *Amherst* (94 L/6; 16° 44' : 98° 27'), freshwater limestone. G. C., **R**, LV, 288.
- Yobyu, *Pakokku* (84 K/6; 21° 35' : 94° 20' 30"), oil seepage. F. N., **M**, XXVII, 184; E. H. P., **M**, XL, 140.
- Yedarbuchi, *Bhandara* (55 O/10; 21° 32' 30" : 79° 43'), manganese-ore. L. L. F., **M**, XXXVII, 755 (note), 761.

- Yedda Kul (Edaikkal), *S. Arcot* (58 M/2; 11° 39' 30" : 79° 13'), granitoid gneiss. W. K., **M**, IV, 299.
- Yeddihalli, *Gulbarga* (56 D/10; 16° 32' : 76° 32' 30"), brecciated limestone, Bhima series. R. B. F., **M**, XII, 162; stone implements, 247.
- Yedlabundam, *Adilabad* (56 N/13; 18° 56' : 79° 55'), Kamthi beds. W. K., **R**, XIII, 15.
- Yedwet, *L. Chindwin* (84 N/2; 22° 32' : 95° 12'), pottery clay. E. H. P., **R**, LXII, 33; soap-sand, 67, 102.
- Yedwet, *Magwe* (84 P/3; 20° 26' : 95° 14'), Pegu inlier. E. H. P., **M**, XL, 137.
- Yega, *Sagaing* (84 O/13; 21° 59' : 95° 59'), salt works. E. H. P., **R**, LV, 25.
- Yeganzu, *L. Chindwin* (84 N/4; 22° 11' : 95° 14' 30"), Irrawadian beds. E. H. P., **R**, LXII, 101.
- Yekshi, *Abor Hills* (82 L/16; 28° 15' : 94° 59'), sericite schists and brecciated limestone. J. C. B., **R**, XLII, 248.
- Yelakala Gadda, *Sandur* (57 A/12; 15° 1' 30" : 76° 35' 30"), manganese-ore. L. L. F., **M**, XXXVII, 1029.
- Yelawal (Elivada), *Mysore* (57 D/11; 12° 20' 30" : 76° 32' 30"), mica. T. H. H., **M**, XXXIV, 68.
- Yelchang, *Zangskar* (52 C/13; 33° 55' : 76° 55'), Triassic limestone. R. L., **R**, XIII, 48.
- Yeldoorly (Veldurti), *Kurnool* (57 E/14; 15° 33' : 77° 56'), millstone grits. W. K., **M**, VIII, 283.
- Yelhatti, *Jamkhandi* (47 P/3; 16° 29' 30" : 75° 10'), ossiferous gravel. R. B. F., **M**, XII, 243.
- Yellaconda (Velikonda) range, *Kurnool* (57 M/3; 15° 20' : 79° 10'), Nullamalalai series. W. K., **M**, VIII, 217 (figs.).
- Yellakudumboor (Ellaikkadambur), *Trichinopoly* (58 M/3; 11° 16' 30" : 79° 11'), Ariyalur stage, middle zone. H. F. B., **M**, IV, 140; Ninniyur beds, 142.
- Yellambile, *Warangal* (57 C/10; 17° 41' : 80° 40'), eozoneoid structure in limestone. W. K., **R**, V, 47, 122.
- Yellapur (Musulmari), *Belgaum* (47 L/12; 16° 3' : 74° 40'), inlier of gneiss. R. B. F., **M**, XII, 92.
- Yellava Odai (stream), *Tinnevely* (58 H/15; 8° 16' : 77° 47'), Cuddalore grits and marine clays, fossils. R. B. F., **M**, XX, 41, 61; travertine, 78.
- Yellavanasur (Elavanasur), *S. Arcot* (58 M/2; 11° 42' 30" : 79° 11'), tors of granitoid gneiss. W. K., **M**, IV, 302 (fig.).
- Yellurgarh (Yalur), *Belgaum* (48 I/9; 15° 45' : 74° 31' 30"), olivine-basalt. R. B. F., **M**, XII, 182; pisolitic laterite, 207; C. S. F., **M**, XLIX, 73.
- Yelluvaramuki, *Tinnevely* (58 H/14; 8° 30' 30" : 77° 58'), travertine. R. B. F., **M**, XX, 77.
- Yembayi, *Kurnool* (57 I/2; 15° 34' : 78° 7'), hot spring. T. O., **M**, XIX, 147.
- Yemeye, *Mandalay* (93 C/5; 21° 51' 30" : 96° 20'), *Camarocrinus* beds. T. D. L., **M**, XXXIX, pt. 2, 121, 335.
- Yemkulloo (Vemkal), *Mahbubnagar* (56 L/8; 16° 1' 30" : 78° 17' 30"), Bangana-palli beds (?). W. K., **M**, VIII, 91.
- Yemlapalli (Yamanpalli), *Adilabad* (56 M/16; 19° 6' : 79° 51'), iron-smelting. W. K., **M**, XVIII, 197; L. L. F., **R**, L, 285.



- Yemmiganur, *Bellary* (57 E/5; 15° 46' 30" : 77° 29'), brecciated quartz reef (fault-rock). R. B. F., **M**, XXV, 176.
- Yenak, *Yeotmal* (56 M/1; 19° 52' : 79° 5'), Vindhyan beds. T. W. H. H., **M**, XIII, 12; iron-ore, 111; T. O., **R**, III, 77; P. N. D., **R**, XXXVIII, 312.
- Yenan, *U. Chindwin* (84 I/9; 23° 57' : 94° 30'), oil seepage. F. N., **M**, XXVII, 184; E. H. P., **M**, XL, 147.
- Yenan Chaung, *L. Chindwin* (84 J/10; 22° 37' 30" : 94° 39'), oil seepage. E. H. P., **M**, XL, 145.
- Yenan Chaung, *Minbu* (84 L/16; 20° 5' : 94° 55'), oil springs. E. H. P., **M**, XL, 166.
- Yenandaung, *Henzada* (85 N/4; 18° 12' : 95° 8'), oil seepage. W. T., **M**, X, 346; M. S., **R**, XLI, 262; E. H. P., **M**, XL, 177.
- Yenandaung, *Pakokku* (84 K/15; 21° 16' : 94° 46'), natural gas. E. H. P., **M**, XL, 122.
- Yenandaung, *Ramri I.*, oilfield, see Minbyin.
- Yenangyat, *Pakokku* (84 K/16; 21° 6' : 94° 48'), oilfield. F. N., **M**, XXVII, 170 (Pls. xvi, figs. 1, 2 & xvii); G. E. G., **M**, XXVIII, 30 (Pl. ii); G. C., **R**, XXXVIII, 302 (Pls. xxviii-xxix a); E. H. P., **M**, XI, 101 (Pls. xxviii-xxx); asymmetry of anticline. **R**, XXXIV, 253 (fig. & Pl. xxxv); analysis of oil. C. Engler, **R**, XXVII, 49, fossil resin. F. N., **R**, XXVI, 40; O. H., **R**, XXVI, 64; soda salt, analysis. G. S. L., **R**, XXX, 260; Miocene fauna. F. N., **M**, XXVII, 2; **R**, XXVIII, 66; M. S., **R**, XXXVIII, 284; freshwater gastropoda. N. A., **R**, L, 214, 224; Burma earthquake, 1912. J. C. B., **M**, XLII, 66.
- Yenangyaung, Yen-an-hkyoung, *Magwe* (84 L/15; 20° 27' 30" : 94° 52'), oilfield. W. T., **R**, III, 72; F. N., **R**, XXII, 75 (Pls. iv, v); **M**, XXVII, 95 (frontispiece & Pls. viii, ix & xi-xv); G. E. G., **M**, XXVIII, 58; E. H. P., **M**, XL, 55 (frontispiece & Pls. ii, iv-xxvii); analyses of oil. T. H. H., **R**, XXIV, 252; C. Engler, **R**, XXVII, 51; coal. G. S. L., **R**, XXX, 254; R. R. S., **M**, XLI, 68; chipped (?) flints. F. N., **R**, XXVII, 101 (Pl. xxvii); vertebrate fossils. XXVIII, 78; XXX, 242 (Pls. xix, xx); Miocene fauna. **M**, XXVII, 1; G. E. P., **R**, XXXI, 103; E. H. P., **R**, XXXV, 120; XXXVI, 135 (Pl. xviii); occurrence of *Batissa*, 143 (Pls. xix, xx); supposed fossil eggs. **R**, LIX, 14; C. T. B., **R**, LXII, 454; Burma earthquake, 1912. J. C. B., **M**, XLII, 65, 99.
- Yenanman, *Thayetmyo* (85 I/13; 19° 46' 30" : 94° 48'), oil seepage. E. H. P., **M**, XL, 169.
- Yenatha, *U. Chindwin* (84 I/4; 23° 13' : 94° 11' 30"), oil seepage. E. H. P., **M**, XL, 147.
- Yendikeri, *Bijapur* (47 P/8; 16° 8' : 75° 30'), oolitic chert in L. Kaladgi limestone. R. B. F., **M**, XII, 117, 137.
- Yendriki hill, *Vizagapatam* (65 J/12; 18° 12' : 82° 34'), high-level laterite. T. H. H., **R**, XXXII, 143.
- Yengan, *Mergui* (96 I/15; 11° 27' : 98° 46'), tin and wolfram. T. W. H. H., **R**, XXII, 201; T. H. H., **R**, XXXVII, 40; J. C. B., **R**, L, 118.
- Yengan, *Minbu* (84 L/16; 20° 0' 30" : 94° 56'), gas pools. E. H. P., **M**, XL, 167.
- Yengutsa glacier, *Nagir* (42P/4; 36° 9' : 75° 4'), survey. H. H. H., **R**, XXXV, 134 (Pls. xxviii-xxx & xxxvii); movements of snout. K. M., **R**, LXIII, 228 (Pl. vi, 2).

- Yenmabin, *Meiktila* (93 D/6;  $20^{\circ} 45' : 96^{\circ} 17' 30''$ ), metamorphic rocks. C. S. M., A. R., 1900, 129=Yinmabin.
- Yenna Falls, *Satara* (47 G/9;  $17^{\circ} 53' : 73^{\circ} 41'$ ), pisolitic manganese-ore. L. L. F., M, XXXVII, 663, 665.
- Yen-tzu-shao, *Yunnan* (101 K/12;  $25^{\circ} 11' : 102^{\circ} 39'$ ), M Carboniferous fossils. J. C. B., R, XLIV, 102; coal seam. M, XLVII, 75.
- Ye-o-sin, *S. Shan States* (93 D/9;  $20^{\circ} 53' : 96^{\circ} 41'$ ), Ordovician fossils. E. H. P., R, LXIII, 23, 89.
- Yeotmal, *Berar* (55 L/3;  $20^{\circ} 24' : 78^{\circ} 8'$ ), laterite. W. T. B., R, I, 64.
- Yeramanur (Erumanur), *S. Arcot* (58 M/6;  $11^{\circ} 32' 30'' : 79^{\circ} 17' 30''$ ), Ariyalur stage, fossils. H. F. B., M, IV, 148.
- Yercaud, *Salem* (58 I/1;  $11^{\circ} 46' : 78^{\circ} 13'$ ), charnockite. T. H. H., M, XXVIII, 151, 181 (Pl. xii); 'trap-shotten' gneiss, 202.
- Yergatti, *Belgaum* (48 M/1;  $15^{\circ} 58' : 75^{\circ} 1' 30''$ ), clay-schist and limestone, L. Kaladgi. R. B. F., M, XII, 111.
- Yerkal (Herkal), *Bijapur* (47 P/11;  $16^{\circ} 15' : 75^{\circ} 43'$ ), hematite-schist cliff. R. B. F., M, XII, 52 (Pl. ii); L. Kaladgi beds, section, 80; erosion of Dharwar rocks. R, XXII, 29.
- Yermaputti (Erumaipatti), *Salem* (58 I/8;  $11^{\circ} 8' 30'' : 78^{\circ} 17' 30''$ ), pot-stone. W. K., M, IV, 371.
- Yerraballe (Yarrapalli), *Nellore* (57 N/9;  $14^{\circ} 59' 30'' : 79^{\circ} 36'$ ), pegmatite. T.H.H., M, XXXIV, 61.
- Yerrachelloor (Erichallur), *Travancore* (58 H/3;  $8^{\circ} 20' : 77^{\circ} 7'$ ), pseudo-crystals of graphite. G. H. T., R, LI, 28 (fig. & Pl. i).
- Yerragoontla Cotta (Erraguntlakota), *Cuddapah* (57 O/5;  $13^{\circ} 57' 30'' : 79^{\circ} 16' 30''$ ), iron-smelting. W. K., M, VIII, 206, 280.
- Yerramarsu, *Raichur* (56 H/4;  $16^{\circ} 12' : 77^{\circ} 1' 30''$ ), hematitic quartz reef. R. B. F., M, XII, 67.
- Yerrugerri, *Raichur* (56 H/8;  $16^{\circ} 4' : 77^{\circ} 25'$ ), granite veins in gneiss. R. B. F., M, XII, 65.
- Yeruli (Eruli), *Satara* (47 F/16;  $18^{\circ} 1' 30'' : 73^{\circ} 50'$ ), psilomelane. L. L. F., M, XXXVII, 90; laterite, 374-381; manganese-ore, 502, 667; bauxite. C. S. F., M, XLIX, 86.
- Yerumeivettipaleiyam, *Chingleput* (66 C/4;  $13^{\circ} 14' : 80^{\circ} 7'$ ), Cuddalore grits, section. R. B. F., M, X, 59.
- Yeshin, *Pakokku* (84 K/1;  $21^{\circ} 52' : 94^{\circ} 9'$ ), Eocene gastropoda. E. V., R, LV, 52.
- Yesin Taung, *Tavoy* (95 K/10;  $13^{\circ} 43' : 98^{\circ} 37'$ ), granite. J. C. B., M, XLIV, 186.
- Yethama, *Minbu* (84 L/5;  $20^{\circ} 52' : 94^{\circ} 24'$ ), nummulites. G. C., R, XLIV, 77; Tertiary gastropoda. E. V., R, LIV, 244.
- Yethyauksan, *Henzada* (85 N/3;  $18^{\circ} 26' : 95^{\circ} 11'$ ), Akauktaung series, fossils. M. S., R, XLI, 245; E. V., R, LI, 251.
- Yeu, *Yamethin* (93 D/7;  $20^{\circ} 21' 30'' : 96^{\circ} 15' 30''$ ), graphite. E. H. P., R, LIX, 44; galena, 48.
- Yeumtong, *Sikkim* (78 A/9;  $27^{\circ} 49' 30'' : 88^{\circ} 42'$ ), hot springs, sulphurous. T. O., M, XIX, 130; P. N. B., R, XXIV, 220.
- Yewaing, *Tavoy* (95 J/8;  $14^{\circ} 10' : 95^{\circ} 17'$ ), wolfram. J. C. B., M, XLIV, 210.

- Yeyin, *L. Chindwin* (84 J/11; 22° 27' : 94° 40'), Pegu anticline. E. H. P., **M**, XL, 143; gas seepage. **R**, LXII, 52.
- Yeyodaung, *Minbu* (84 L/5; 20° 50' : 94° 20'), oil wells. H. H. H., **R**, XLIII, 20.
- Yikuru (Ikkuru), *Guntur* (65 D/4; 16° 13' 30" : 80° 0' 30"), porphyritic granitoid gneiss. R. B. F., **M**, XVI, 36.
- Yimbaing, *Thaton* (94 G/15; 17° 24' 30" : 97° 46'), wad. L. L. F., **M**, XXXVII, 671.
- Yi-men Hsien, *Yunnan* (101 L/2; 24° 40' : 102° 10'), iron mines. J. C. B., **M**, XLVII, 83, 95=I-men Hsien.
- Yinbat, *Myitkyina* (92 G/4; 25° 10' : 97° 5'), quartzites. F. N., **R**, XXVI, 28.
- Yindaw, *Yamethin* (84 P/14; 20° 43' : 95° 57'), saltpetre. E. H. P., **R**, LIX, 50.
- Ying-pan-kai, *Yunnan* (92 K/10; 25° 36' : 98° 32'), andesites. J. C. B., **R**, XLIII, 195; iron mines. **M**, XLVII, 85.
- Ying-wu-kuan, *Yunnan* (101 G/3; 25° 25' : 101° 2'), Permo-Triassic beds. J. C. B., **R**, LIV, 84.
- Yinmabin, *Meiktila* (93 D/6; 20° 45' : 96° 17' 30"), Chaung-Magyi beds. E. H. P., **R**, LVIII, 43=Yenmabin.
- Yinnye, *Thaton* (94 H/5; 16° 47' : 97° 23'), kaolin. E. H. P., **R**, LIII, 17; LVIII, 28.
- Yinyoin, *Shwebo* (84 M/3; 23° 18' : 95° 3' 30"), soap-sand. L. L. F., **R**, LXV, 66; volcanic rocks, 95.
- Yituitse R., *Spiti* (52 L/8; 32° 3' : 78° 26'), actinolite-schist. H. H. H., **M**, XXXVI, 99.
- Yoja, *Tibet* (78 E/1; 27° 48' : 89° 2'), hot springs, sulphurous. H. H. H., **M**, XXXVI, 136.
- Yol Jig, *Andamans* (86 D/15; 12° 26' : 92° 54'), ashy sandstones. E. R. G., **R**, LIX, 213 (Pl. xiv, fig. 1).
- Yongri hill, *Darjeeling* (78 B/9; 26° 57' : 88° 30'), copper mine. F. R. M., **R**, XV, 56; P. N. B., **R**, XXIII, 257.
- Yonsin, *Pakokku* (84 K/6; 21° 42' : 94° 18' 30"), oil seepage. E. H. P., **R**, LV, 24.
- Yonywa, *Myingyan* (84 P/2; 20° 41' : 95° 4'), Miocene fossils. E. H. P., **M**, XL, 128.
- Yonzingyi, *Myingyan* (84 O/12; 21° 11' 30" : 95° 35'), Irrawadian beds. E. H. P., **R**, LIX, 71.
- Yoonzaleen R., *Salween* (94 F/S. W.; 18° 10' : 97° 25'), lead and copper (O'Rileyite). W. T., **R**, VI, 93 (Pl. iv)=Yunzalin R.
- You-tien, *Yunnan* (92 P/9; 24° 50' : 99° 36'), dolomitic (Plateau) limestone. J. C. B., **R**, XLVII, 227; river terraces, 265.
- Yualakuppam (Kottarakuppam), *S. Arcot* (58 M/6; 11° 39' 30" : 79° 22'), clays, Ariyalur stage. H. F. B., **M**, IV, 149.
- Yuan-mou Hsien, *Yunnan* (101 G/14; 25° 37' : 101° 58'), Permo-Triassic beds. J. C. B., **R**, XLIV, 113.
- Yuathit, *Thayetmyo* (85 I/11; 19° 15' 30" : 94° 41'), axial and Eocene beds, section. W. T., **R**, IV, 37; **M**, X, 290, 321; M. S., **R**, XLI, 249=Ywathit.
- Yulang R., *Bashahr* (53 I/9; 31° 56' : 78° 33'), Devonian beds. H. H. H., **M**, XXXVI, 34; Carboniferous, 36; gypsum, 41, 101 (Pl. xvi).

- Yun Chou, *Yunnan* (101 D/3; 24° 27' : 100° 7'), crystalline rocks. J. C. B., **R**, XLVII, 218; LIV, 298.
- Yunam lake, *Lahul* (52 H/5; 32° 48' : 77° 27'), Muth beds. F. S., **M**, V, 341.
- Yung La, *Tibet* (77 G/16; 29° 1' : 89° 52'), Jurassic beds. H. H. H., **R**, XXXII, 166; **M**, XXXVI, 160.
- Yung-ch'ang Fu (Pao-shan Hsien), *Yunnan* (92 O/4; 25° 7' : 99° 10'), lacustrine deposits. J. C. B., **R**, XLVII, 236.
- Yungpa, *Bashahr* (53 I/2; 31° 37' : 78° 2'), kyanite in gneiss. F. S., **M**, V, 14 = Yangpa.
- Yung-peï T'ing, *Yunnan* (101 B/10; 26° 41' : 100° 43'), Permo-Triassic beds. J. C. B., **R**, LIV, 326.
- Yung-p'ing Hsien, *Yunnan* (92 O/11; 25° 26' 30" : 99° 32' 30"), iron-ore. J. C. B., **M**, XLVII, 94; silver mine, 125.
- Yun-lung Chou, *Yunnan* (92 O/5; 25° 49' : 99° 20'), brine wells. J. C. B., **M**, XLVII, 165.
- Yunnan Fu, *Yunnan* (101 K/12; 25° 3' : 102° 42'), geology of area. J. C. B., **R**, XLIV, 88 (Pl. iv).
- Yunnan Hsien, *Yunnan* (101 C/11; 25° 29' : 100° 33'), coalfield. J. C. B., **M**, XLVII, 66; lacustrine deposits. **R**, LIV, 79.
- Yunnan-i, *Yunnan* (101 C/11; 25° 25' : 100° 41'), Triassic beds, fossils, J. C. B., **R**, LIV, 77.
- Yunzalin R., *Salween* (94 F/S. W.; 18° 10' : 97° 25'), geological traverse. E. L. C., **R**, LX, 292 (Pl. xxiii)=Yoonzaleen R.
- Yuyinbyet (Yeyunbyit), *Katha* (84 M/5; 23° 59' 30" : 95° 23'), coal seam. F. N., **R**, XXVII, 121; R. R. S., **M**, XLI, 74.
- Ywa-haung-gyi, *S. Shan States* (93 D/13; 20° 58' 30" : 96° 47' 30"), lead-ore. J. C. B., **R**, LXV, 400.
- Ywamandaung, *Shwebo* (84 M/4; 23° 5' : 95° 0'), 'kankar'. L. L. F., **R**, LXV, 36.
- Ywapale, *Meiktila* (93 D/1; 20° 55' : 96° 3' 30"), mammalian bones. E. H. P., **R**, LX, 84.
- Ywataung, *Sagaing* (84 O/13; 21° 54' : 95° 58' 30"), Burma earthquake, 1912. J. C. B., **M**, XLII, 61.
- Ywatha, *Kyaukse* (84 O/15; 21° 27' : 95° 59' 30"), Irrawadian beds. E. H. P., **R**, LX, 84.
- Ywatha, *U. Chindwin* (83 L/12; 24° 10' : 94° 41'), alluvial gold. H. S. B., **R**, XLIII, 254.
- Ywathit, *Karenni* (94 E/12; 19° 10' : 97° 30'), quartzites and slates. C. S. M., **A. R.**, 1900, 143.
- Ywathit, *Sagaing* (84 N/16; 22° 9' : 95° 50'), U. Pegu beds. E. H. P., **R**, LXII, 123.
- Ywathit, *Thayetmyo* (85 I/11; 19° 15' 30" : 94° 41'), *Cardita beaumonti* beds. G. H. T., **R**, XXXV, 119; G. C., **R**, XLI, 322=Yuathit.
- Ywot-pa, *Bassein* (85 L/4; 16° 10' : 94° 14' 30"), mud volcano. W. T., **M**, X, 307.

- Zab R., *Iraq* ( $36^{\circ} 1' : 43^{\circ} 22'$ ), sulphur springs. E. H. P., **R**, LI, 153 (Pl. vi); **M**, XLVIII, 35 (Pl. iii).
- Zabyaw, *Pakokku* ( $84^{\circ} 5' : 20^{\circ} 52' : 94^{\circ} 20'$ ), Tertiary gastropoda. E. V., **R**, LIV, 244.
- Zagra, *Yeotmal* ( $55^{\circ} 15' : 20^{\circ} 15' : 78^{\circ} 54' 30''$ ), borings for coal. T. W. H. H., **M**, XIII, 39.
- Zaino (Jainu), *Kohat* ( $38^{\circ} 0'11' : 33^{\circ} 18' : 71^{\circ} 33'$ ), salt quarries. H. W., **M**, XI, 320.
- Zalun, *Henzada* ( $85^{\circ} 0'11' : 17^{\circ} 29' : 95^{\circ} 34'$ ), Pegu earthquake, 1930. J. C. B., **R**, LXV, 240.
- Zalung-karpo La, *Ladakh* ( $52^{\circ} 6' : 33^{\circ} 41' : 77^{\circ} 28'$ ), Carboniferous slates and limestone. F. S., **M**, V, 344.
- Zanakhan, *Afghanistan* ( $38^{\circ} 10' : 33^{\circ} 40' 30'' : 68^{\circ} 38'$ ), argentiferous galena. C. L. G., **R**, XXV, 77.
- Zangla, *Zangskar* ( $52^{\circ} 14' : 33^{\circ} 40' : 76^{\circ} 59'$ ), Triassic limestone. R. L., **R**, XIII, 48.
- Zani Kap, *Chitral* ( $42^{\circ} 7' : 36^{\circ} 22' : 72^{\circ} 17'$ ), galena. L. L. F., **R**, LIV, 31.
- Zao R., *D. I. Khan* ( $39^{\circ} 1' : 31^{\circ} 50' : 70^{\circ} 6'$ ), Cretaceous limestone. C. L. G., **R**, XVII, 176, 182 (figs.); Eocene beds. T. D. L., **R**, XXVI, 85 (Pl. xii, fig. 3).
- Zarakhu R., *Kalat* ( $34^{\circ} 4' : 30^{\circ} 2' : 67^{\circ} 7'$ ), coal seams. W. K., **R**, XXIV, 8.
- Zaratu, *Persia* ( $25^{\circ} 42' : 27^{\circ} 42' : 56^{\circ} 12'$ ), Fars series. G. E. P., **M**, XLVIII, pt. 2, 80.
- Zard, *Kharan* ( $34^{\circ} 14' : 28^{\circ} 41' : 64^{\circ} 47'$ ), Eocene beds. E. V., **M**, XXXI, 232 (Pl. x).
- Zaradalu, *Sibi* ( $34^{\circ} 11' : 30^{\circ} 16' 30'' : 67^{\circ} 31'$ ), coal mine. R. R. S., **M**, XLI, 33.
- Zarghun, *Persia* ( $17^{\circ} 9' : 29^{\circ} 47' 30'' : 52^{\circ} 45'$ ), Bakhtiyari conglomerate. G. E. P., **M**, XXXIV, pt. 4, 74.
- Zarghun Mt., *Quetta-Pishin* ( $34^{\circ} 7' : 30^{\circ} 17' : 67^{\circ} 16'$ ), Siwalik beds. C. L. G., **R**, XXVI, 116.
- Zawar, *Mewar* ( $45^{\circ} 11' : 24^{\circ} 21' : 73^{\circ} 41'$ ), zinc mines. E. H. P., **R**, LXIII, 79 =Jawar.
- Zebingyi, *Mandalay* ( $93^{\circ} 5' : 21^{\circ} 53' : 96^{\circ} 19'$ ), graptolite beds. T. D. L., **M**, XXXIX, pt. 2, 163, 334; fault, 358=Zibingyi.
- Zedawun, *Mergui* ( $95^{\circ} 11' : 12^{\circ} 21' : 98^{\circ} 43'$ ), tin-ore. T. W. H. H., **R**, XXII, 189.
- Ze-haung, *Mandalay* ( $93^{\circ} 7' : 22^{\circ} 19' : 96^{\circ} 18'$ ), fault. T. D. L., **M**, XXXIX, pt. 2, 46.
- Zeitun Mts., *Persia* ( $10^{\circ} 2' : 30^{\circ} 31' : 50^{\circ} 10'$ ), Bakhtiyari sandstones. G. E. P., **M**, XXXIV, pt. 4, 76.
- Zemu glacier, *Sikkim* ( $78^{\circ} 1' : 27^{\circ} 45' : 88^{\circ} 15'$ ), survey. T. D. L., **R**, XL, 57, (Pls. xxii-xxiv & xxvi).
- Zera, *Tirah* ( $38^{\circ} 2' : 33^{\circ} 43' 30'' : 71^{\circ} 12'$ ), Cretaceous beds. C. L. G., **R**, XXV, 88.
- Zertungi, *Kohat* ( $38^{\circ} 11' : 33^{\circ} 17' : 71^{\circ} 32'$ ), alluvial gold. A. B. W., **M**, XI, 241.

- Zewan, *Kashmir* (43 J/16;  $34^{\circ} 2' 30''$  :  $74^{\circ} 54' 30''$ ), Permo-Carboniferous beds. R. D. O., **R**, XXXI, 6; C. S. M., **R**, XXXVII, 298; *Gangamopteris* beds. H. H. H., **R**, XXXVI, 27 (Pls. iv, fig. 2 & vii); A. C. S., **R**, XXXVI, 57 = Ziawan.
- Ziaing, *Prome* (85 N/1;  $18^{\circ} 52'$  :  $95^{\circ} 10'$ ), oil seepage. E. H. P., **M**, XL, 176; M. S., **R**, XXXVIII, 270.
- Ziarat, *Attock* (38 O/15;  $33^{\circ} 25' 30''$  :  $71^{\circ} 54'$ ), basal beds, L. Siwalik. L. L. F., **R**, LXV, 120 = Zyarut.
- Ziarat, *Chitral* (38 M/15;  $35^{\circ} 22'$  :  $71^{\circ} 47'$ ), gneiss and mica-schists. H. H. H., **R**, XLV, 277.
- Ziarat, *Kalat* (34 K/15;  $29^{\circ} 18'$  :  $66^{\circ} 52'$ ), coal seam. E. V., **R**, XXXVIII, 204 (Pl. viii); copper-ore, 210.
- Ziarat Chashma Shafan, *Afghanistan* (33 N/9;  $34^{\circ} 52'$  :  $67^{\circ} 43'$ ), Cretaceous overlap. H. H. H., **M**, XXXIX, 55 (fig.).
- Ziawan, *Kashmir* (43 J/16;  $34^{\circ} 2' 30''$  :  $74^{\circ} 54' 30''$ ), Permo-Carboniferous bed<sup>s</sup>. R. L., **R**, XIV, 30 = Zewan.
- Zibindwin, *L. Chindwin* (84 J/15;  $22^{\circ} 16'$  :  $94^{\circ} 51'$ ), alluvial gold. E. H. P., **R**, LXI, 56.
- Zibingyi, *Mandalay* (93 C/5;  $21^{\circ} 53'$  :  $96^{\circ} 19'$ ), graptolite beds. P. N. D., **A. R.**, 1900, 104, 117 = Zebingyi.
- Zibugon, *Myitkyina* (92 C/7;  $25^{\circ} 28'$  :  $96^{\circ} 18'$ ), lignite. E. H. P., **R**, LXII, 34.
- Zidaw, *Pukokku* (84 O/3;  $21^{\circ} 28'$  :  $95^{\circ} 7'$ ), *Ampullina birmanica*. E. V., **R**, LIII, 361 (Pl. xxvii, fig. 3).
- Zidaw (Magyidaw), *Ramri I.* (85 F/13;  $18^{\circ} 58'$  :  $93^{\circ} 47'$ ), oil seepages. E. H. P., **M**, XL, 193.
- Zigon, *Mandalay* (93 B/2;  $22^{\circ} 35'$  :  $96^{\circ} 1'$ ), Burma earthquake, 1912. J. C. B., **M**, XLII, 19.
- Zigon, *Tharawaddy* (85 N/11;  $18^{\circ} 20'$  :  $95^{\circ} 38'$ ), Burma earthquake, 1912. J. C. B., **M**, XLII, 70.
- Zimba, *Taroy* (95 J/2;  $14^{\circ} 38'$  :  $98^{\circ} 10' 30''$ ), scheelite. J. C. B., **M**, XLIV, 212; bismuth, 219, 222; stibnite, 221; wolfram, 227, 274; **R**, L, 108.
- Zindan range, *Persia* (25 E/3;  $27^{\circ} 21'$  :  $57^{\circ} 7'$ ), Cretaceous limestone. G. E. P., **M**, XLVIII, pt. 2, 62; Zindan series, Eocene, 74.
- Zingitak Kotal, *Afghanistan* (38 A/10;  $35^{\circ} 40'$  :  $68^{\circ} 30'$ ), igneous rocks. C. L. G., **R**, XX, 21.
- Zingyaik, Zingyeik, *Thaton* (94 H/6;  $16^{\circ} 41' 30''$  :  $97^{\circ} 26'$ ), wolfram. J. C. B., **R**, L, 104; Pegu earthquake, 1930. LXV, 236.
- Zingzingbar, *Lahul* (52 H/5;  $32^{\circ} 47' 30''$  :  $77^{\circ} 20'$ ), fossiliferous limestone, ? Silurian. F. S., **M**, V, 341.
- Zintega Kotal, *Afghanistan* (38 C/14;  $33^{\circ} 36'$  :  $68^{\circ} 52'$ ), Rhatic limestone. C. L. G., **R**, XXV, 78.
- Zirkoh I., *Persian Gulf* (18 H/1;  $24^{\circ} 53'$  :  $53^{\circ} 5'$ ), Hormuz series. G. E. P., **M**, XXXIV, pt. 4, 143.
- Zoe (Zawe), *Mergui* (95 I/16;  $12^{\circ} 14'$  :  $98^{\circ} 56'$ ), tin-ore. P. N. B., **R**, XXVI, 163.

- Zoiji, Zoji La, *Kashmir* (43 N/7 ; 34° 16' 30" : 75° 28'), Carbo-Triassic beds. F. S., **M**, V, 349 ; R. L., **R**, XI, 45 ; XII, 18 ; XV, 19 ; **M**, XXII, 146 (Pl. iii, fig. 4) ; C. S. M., **R**, XLI, 142 ; erosion of gorge. R. D. O., **R**, XXXI, 149 (Pl. xii).
- Zolfikar, *Persia* (29 E/6 ; 35° 34' ; 61° 16'), Cretaceous beds. C. L. G., **R**, XIX, 63.
- Zor Shahr, *D. I. Khan* (39 I/2 ; 31° 42' : 70° 6'), U. Eocene beds, section, gypsum, T. D. L., **R**, XXVI, 87.
- Zumani, *Hoshangabad* (55 F/10 ; 22° 32' : 77° 43'), Mahadeva sandstones and conglomerates. H. B. M., **R**, VIII, 70.
- Zunaresb, *Kashmir* (43 J/3 ; 34° 27' 30" : 74° 1'), Silurian limestone. H. H. H., **R**, XLIII, 37.
- Zurmust pass, *Afghanistan* (29 J/14 ; 34° 35' : 62° 50'), Trias-Jura beds. C. L. G., **R**, XVIII, 63 ; XIX, 54 ; *Serpula*, Cretaceous. H. S. B., **R**, LVI, 263.
- Zyarut, *Attock* (38 O/15 ; 33° 25' 30" : 71° 54'), *Mastodon* teeth. A. B. W., **R**, X. 119=Ziarat.

# LIST OF SYNONYMS.

## APPENDIX

### LIST OF SYNONYMS

(See Introductory Note, p. iii)

Abidserai	Persia	see Ab-i-bid
Abu Sarkal	Iraq	„ Palkanah
Ad Dthala	Aden	„ Dala
Adamalnattam	Coimbatore	„ Hadabanatta
Adhoi	Cutch	„ Adhove
Adwi Somnapalli	Karimnagar	„ Aravi Somnapalli
Afia	Surguja	„ Uphia
Agnigundala	Guntur	„ Gantlapalem
Ahmadnagar	Bombay	„ Ahmednuggur
Aidbhavi	Raichur	„ Idubhavi
Aish Magam	Kashmir	„ Eishmakam
Ajay R.	Birbhum	„ Adjai R.
Akanpalli	Adilabad	„ Aknapalli
Akavidu	Kurnool	„ Aukiveed
Al Khaur	Aden	„ Ulkhour
Alagumalai	Coimbatore	„ Hallagomallai
Alatamu Kota	Kurnool	„ Allotta.
Alattudaiyanpatti	Trichinopoly	„ Aulthromputty
Alavakonda	Kurnool	„ Ollavaconda
Aligilavada	Bellary	„ Hallagilvadi
Allalapuram	Salem	„ Ullalapooram
Allikkuli	Chingleput	„ Alicoor
Alubera	Santal Parganas	„ Alobaru
Alundalipur	Trichinopoly	„ Alundanapuram
Amarambedu	Chingleput	„ Amerumbode
Amarnath	Kashmir	„ Amrnath
Amarpani	Santal Parganas	„ Umbapani
Ambika R.	Surat	„ Umbeeka R.
Amiyan	Naini Tal	„ Amia
Ammakalattur	S. Arcot	„ Ommacalatur
Ammapatti	Trichinopoly	„ Amahputty
Amra	Hazaribagh	„ Umri
Amulchat	Yasin	„ Amurohat
Anaipadi	Trichinopoly	„ Annapaudy
Anandpur	Hoshiarpur	„ Nandpur
Anandpur	Jaipur	„ Undpura
Anchla	Rewah	„ Achala
Andal	Burdwan	„ Ondal
Angaraipalli	Adilabad	„ Agrezpali
Ang-kong	Yunnan	„ Ong-kong
Anikkaranchattram	Tanjore	„ Anagarachuttrum
Anksapur	Adilabad	„ Aksapur
Annareddipalli	Warangal	„ Unaparedipali



Anuppur	Rewah	see Anukpur
Ao-Khorak	Afghanistan	„ Ab-i-Khorak <i>and</i> Khorak-i-Baba
Arachchikkupam	Pondicherry	„ Archiwakum
Archalik	Kashgar	„ Acheqtash
Arial	Jammu	„ Adital
Ariyalur	Trichinopoly	„ Arrinloor
Asantalia	Kharsawan	„ Asantoria <i>and</i> Assuntilea
Asirgarh	Betul	„ Asscergurh
Asloha	Rawalpindi	„ Saloi
Assar	Kohat	„ Esar
A <sup>a</sup> aura	Lucknow	„ Etorā
Avaku	Kurnool	„ Owk
Awair	Mandi	„ Wyre
Ayalpatti	Salem	„ Jyelputti
Ayan	Simla	„ Yan
Ayinaapuram	Trichinopoly	„ Aina veram
Ayun	Kashmir	„ Ainu
Azizmong	Huzara	„ Uzeczmung
Badarpettai	Trichinopoly	„ Bandraputti
Badogam	Kashmir	„ Bodagram
Bagarapet	Cuddapah	„ Bankrapett
Bagdigi R.	Manbhum	„ Bugdigo R.
Bagheri	Alwar	„ Baggeri <i>and</i> Bajgiri
Bahada	Singhbhum	„ Bada
Bahroj	Alwar	„ Beroj
Bahron	Naini Tal	„ Birond
Bahula	Burdwan	„ Bowla
Bahur	Pondicherry	„ Bavur
Balldih	Manbhum	„ Beldi
Bainar	Narsinghpur	„ Baner <i>and</i> Benar
Bajaara	Kulu	„ Bajaara
Balai	Chamba	„ Bhale
Balanampuram	Travancore	„ Valrampur
Balbul	Palamau	„ Bulbul
Bamandih	Manbhum	„ Brahmundecha
Bamanhalli	Raichur	„ Bomanhal
Bamnau hill	Bhopal	„ Bamnor hill
Bamori	Naini Tal	„ Bhamauri
Banabera	Betul	„ Bandabir
Banaun	Patiala	„ Bandla
Banbahal	Burdwan	„ Bunbehal
Banda Lakoni	Kohat	„ Lakkona
Bandigundi	Shimoga	„ Bhadigund
Banganapalle	Madras	„ Banaganpilly
Bangram	Burdwan	„ Bongha
Bangyok	Mergui	„ Bankyot

# LIST OF SYNONYMS.

Bans Jhor	Manbhum	see Busraya R.
Bapung	Jaintia Hills	„ Wapung
Bara Dhemo	Burdwan	„ Borodhemo
Barahchomridhana	Chhindwara	„ Barikondam
Baragaon	Rewah	„ Burrigaon
Barahana	Gwalior	„ Badhano
Baralacha Pass	Lahul	„ Baralatse pass
Bargar	Rewah	„ Borgurah
Bari Khap	Palamau	„ Bankhap
Barira	Burdwan	„ Borrea
Barki Punu	Hazaribagh	„ Poonoo
Barmhan Ghat	Narsinghpur	„ Birman Ghat
Baroudia	Mowar	„ Borda
Barpu glacier	Nagir	„ Hopar glacier
Barsaura	Khasi Hills	„ Borsora
Barsur	Kangra	„ Budsur
Baruasali	Sibsagar	„ Bornarchali
Baruhla	Chamba	„ Bariara
Barul	Burdwan	„ Badul
Basantpur	Hazaribagh	„ Bussutpoor
Basavapura	Kurnool	„ Baswapur and Busswa- poor
Basi	Balaghat	„ Bhansi
Bastar	Eastern States	„ Bustar
Batakut	Kashmir	„ Bhatkot
Bawal	Karauli	„ Baoli
Bawlou	S. Shan States	„ Bwelon
Bayana	Bharatpur	„ Biana and Byana
Beur's hill	Salem	„ Gundoor hill
Bedadanuru	Godavari	„ Beddadanol
Beduduru	Cuddapah	„ Beddaloor
Behwoor	Bijapur	„ Beur
Belgatta	Chitaldrug	„ Belligudda
Bolukkurichchi	Salem	„ Vailoocoorchy
Bolur	„	„ Valoor
Ber Mota	Cutch	„ Bayr
Berhait	Santal Parganas	„ Burhait
Bermo	Hazaribagh	„ Berembo
Betamcherla	Kurnool	„ Betumcheru
Betne	Belgaum	„ Bidna
Betul	Central Provinces	„ Baitool
Bhadasar	Jaisalmer	„ Bodesir
Bhadli	Cutch	„ Budlee
Bhadra	„	„ Badro
Bhanjada Bet	„	„ Bunjeera Doongur
Bhareli R.	Aka Hills	„ Borholi R.
Bharodia	Cutch	„ Burrooria
Bhateli	Chanda	„ Batara

Bhaun	Garhwal	see Bhuwan
Bhaunra	Hazaribagh	„ Bhowra
Bhawargarh	Balaghat	„ Boregurh
Bhawrechha	Gwalior	„ Babaricha
Bhisi	Chanda	„ Bissi
Bhokar	W. Khandesh	„ Bhagur
Bhori	Alwar	„ Baori
Bhud	Jammu	„ Bhond
Bhugarmang	Hazara	„ Bogarmang
Bhujodi	Cutch	„ Bhoojooree and Boojooree
Biasi	Garhwal	„ Byansi
Bijaigarh	Mirzapur	„ Bijigurh
Bijayan	Jubbulpore	„ Bijjain
Bijian	Hazara	„ Wijjian
Bimarapatti	N. Arcot	„ Pamaraputty
Binhari	Patiala	„ Baliari
Binjorai	Jaisalmer	„ Vinjorai
Bishka	Mymensingh	„ Biskra
Bishnupur	Bankura	„ Vishnupur
Bisian	Hazara	„ Byssia
Blaini R.	Simla	„ Blini R.
Bod Kharbu	Ladakh	„ Karbu
Bokra	Hazara	„ Begarmal
Bolongdoay	Manipur	„ Ballung
Bommanahalli	Mysore	„ Banmanahalli
Botia	Jodhpur	„ Bonthia
Brindaban	Santal Parganas	„ Bindrabun
Brindaban	Singhbhum	„ Burndabon
Bud Karwar	Bundi	„ Bhur-Karwan
Budaroyavalasa	Vizagapatam	„ Buthirayavalsa
Budipadaga	Mysore	„ Badavadi
Budur	Kashmir	„ Buru
Buggalapalle	Cuddapah	„ Bhuga
Bukuk	Persia	„ Pozug
Bulawas R.	„	„ Balwas R.
Bunhad	Chamba	„ Banatu
Buyo-myt (?)	Cheduba I.	„ Buyo-Khin
Chahaltoli	Palamau	„ Chahul
Chaharwala	Hissar	„ Charwallas
Chah-i-Mir (?)	Persia	„ Tat Marg
Chail	Sirmur	„ Chayal
Chajjian	Hazara	„ Chothai
Chakkili Durgam	N. Arcot	„ Chikeli Drug
Chalu	Tibet	„ Tsalu
Chaman Sari	Dehra Dun	„ Banswal
Champabaha	Ranchi	„ Chimpaba

# LIST OF SYNONYMS.

Chapalli	Chitral	see Chapari
Chare	Korea	„ Cher
Charlabar	Merwara	„ Cheriabarb
Chasmiah	Mianwali	„ Chashmai and Chushmea
Chaupal	Simla	„ Chepal
Chaur Mt.	„	„ Chor Mt.
Chelad	Burdwan	„ Chalwad
Chelampalle	Kurnool	„ Chellumpully
Chembarambakkam	Chingleput	„ Sembarampakkam
Chennakkapalle	Kurnool	„ Chennaganpilly
Chhibun	Banda	„ Cheboo
Cbhitrel	Jaisalmer	„ Chitrail
Chhonra	Gwalior	„ Choura
Chiao-hou-ching	Yunnan	„ Chow-ho
Chidambaram	N. Arcot	„ Chollumbrun
Chingas	Gujrat	„ Changas
Ching-ku Hsien	Yunnan	„ Wei-yuan T'ing
Chinna Tiruppatti	N. Arcot	„ Chinna Tripeddy
Chintalacheruvu	Kurnool	„ Chintulcheroo
Chintammipalle	Anantapur	„ Chintamanpully
Chirai Khurd	Surguja	„ Chiraikoon
Chirnamala	Warangul	„ Shernavala
Chirodih	Ranchi	„ Chauradih
Chironj	Tonk	„ Charund
Chobhar	Nepal	„ Choubal
Chokkanathapuram	Trichinopoly	„ Chokanandapuram
Cholatipuzha	Wynaad	„ Cholady
Chomu	Alwar	„ Chaome
Chorwan	Kashmir	„ Chewai
Chulera Landi	Larkhana	„ Chorlo
Churoli	Jaipur	„ Cheroli
Churum	Persia	„ Chorun
Dachuru	Nellore	„ Dasur
Dadio	Singbhum	„ Darion
Dagshai	Simla	„ Dugshai
Dahar	Suket	„ Dihur
Dahu	Hazaribagh	„ Duhoo
Dahwot	Kashmir	„ Dowhat
Daigawan Kalan	Rewah	„ Bara Daigaon and Da gaon
Daigrang R.	Sibsagar	„ Daigrang R.
Damarapakkam	N. Arcot	„ Damavapak
Dammer	Chitral	„ Damel
Danea	Hazaribagh	„ Dhunceya
Daosa	Jaipur	„ Dausa
Dar Tangal	Persia	„ Sar-i-Zangal
Daraba	Punch	„ Draba

Dargawan	Panna	see Dergoan
Darsia	Athgarh	„ Daiserah
Daviran	Persia	„ Burdur
Dawati lake	Alwar	„ Deoti lake
Deonadia	Palanau	„ Donuddia
Deora	Bijawar	„ Dewra
Deori R.	Palanau	„ Dauri R.
Dera Gopipur	Kengra	„ Deirch <i>and</i> Doyra
Derauli	Jaipur	„ Daraoli
Deultangi	Puri	„ Daltola
Devarapalle	Kistna	„ Daywarrapilli
Dewalpur	Sultanpur	„ Dyalpur
Dhadaon	Bundi	„ Dhancum
Dhadgaon	W. Khandesh	„ Durgam
Dhalai	Sylhet	„ Doloi
Dhaloto	Patiala	„ Dhanota
Dhaota	Jaipur	„ Dhota
Dharka	Jubbulpore	„ Tharka
Dharma Ganga	Ahnora	„ Dhauli Ganga
Dharmapuri	Salem	„ Darmahpoor
Dharwas	Chamba	„ Darwas
Dhasala	Burdwan	„ Dhosul
Dhasan R.	Saugor	„ Dossaun R.
Dhelu	Mandi	„ Daulu
Dhingot hill	Mianwali	„ Daugot <i>and</i> Dungoto hill
Diengei	Khasi Hills	„ Dinghie hill
Digha	Manbhum	„ Dekia
Dikari R.	Sadiya	„ Dakaru R.
Dirjmur R.	Lakhimpur	„ Dejmoo <i>and</i> Durjmu R.
Diroli	Datia	„ Daroli
Diur	Chamba	„ Dihur
Doab-i-Loling	Afghanistan	„ Lolinj
Dobargar	Chitral	„ Dubarghar
Dodi	Alwar	„ Todi-Judawas
Dohad	Panch Mahals	„ Dewad
Dongapani	Singhbhum	„ Domapal
Donkya La	Tibet	„ Drongkhya La
Drab Gulbazi	D. J. Khan	„ Ghulami
Dubbagura	Adilabad	„ Dabagur
Duddukuru	Kistna	„ Doodkóoroo
Dudhai	Cutch	„ Doodace
Dudhani	Santal Parganas	„ Dodhani
Dulubzar	Persia	„ Dulab
Duncan I.	Andamans	„ Entry I.
Durgauti R.	Shahabad	„ Doorgowtee R.
Dursendi	Gwalior	„ Doorsari
Dusi	N. Arcot	„ Doshi
Duvvuru	Cuddapah	„ Dhoor

# LIST OF SYNONYMS.

Dwatoi (N.)	Waziristan	see Dotoi
Dzolechili	Naga Hills	„ Makwari
Edaikkal	N. Arcot	„ Yodda Kul
Ekhund	Nimar	„ Ahkund <i>and</i> Akhund
Elavanasur	S. Arcot	„ Yellavanasur
Eleyattur	„	„ Yacloor
Elivada	Mysore	„ Yelawal
Ellaikkadambur	Trichinopoly	„ Yellakudumboor
Ellamanda	Guntur	„ Yallamanda
Elunuttimangalam	Trichinopoly	„ Elanoothoomungalum
Erichallur	Travancore	„ Yerrachelloo.
Erpedu	Chittoor	„ Yalapet
Erraguntlakota	Cuddapah	„ Yerragoontla Cotta
Eruli	Satara	„ Yeruli
Erumaipatti	Salom	„ Yermaputty
Erumanur	S. Arcot	„ Yeramanur
Ethora	Burdwan	„ Aitura
Fang-ya-Shan pass	Myitkyina	„ Fenshuiling pass
Fazalpura	Bundi	„ Phadalpura
Gadhada	Idar	„ Gadru
Gaichund	Spiti	„ Gyetzan
Gaj R.	Kangra	„ Guj R.
Gajansar	Cutch	„ Goodjinseer
Ganaura	Bhagalpur	„ Gonora
Gandikota	Cuddapah	„ Gundycotta
Gangadar	Kashmir	„ Gundpura
Gani Ghattu	Kurnool	„ Gunnygull hill
Ganurgarh	Bhopal	„ Gunoorgurh
Garbhagadi hill	Bellary	„ Currahaguddy <i>and</i> Karra bagaddi hill
Gardan Naorak	Afghanistan	„ Naratu
Garh Dubaur	Gaya	„ Dabur
Garhan	Hazara	„ Kurm
Garimenapenta	Nellore	„ Ganypittah <i>and</i> Gunny penta
Garu	Simla	„ Ghund
Garuzi	Kohat	„ Goorooza
Gatt-i-Barot	Chagai	„ Malik Gatt
Gattimanikonda	Kurnool	„ Gooramanconda
Gaunti	Jhansi	„ Gonti
Gaw	Sandoway	„ Kau
Gayamthasana	Sikkim	„ Gyamtosang
Gayokang	„	„ Gyangang
Ghadani	Cutch	„ Guranee
Ghagtian	Mandi	„ Ghagatyan

Ghairi	Bijawar	see Gireo
Ghala	Navsari	„ Gulla
Ghalin	Banswara	„ Ghatia
Ghangora	Dehra Dun	„ Kungora
Ghikuria	Khairagarh	„ Ghukooroo
Ghortalao	„	„ Gortalou
Ghoshik	Burdwan	„ Ghusic
Ghuar	Cutch	„ Goer
Ghujak-bai	Kashgar	„ Ujadbai
Ghulkin glacier	Hunza	„ Sasaini glacier
Ghundak	Quetta-Pishin	„ Gandak
Ghuner	Cutch	„ Goonoori and Guniri
Ghutkesar	Atraf-i-Baldu	„ Gutkassara
Girkushi	Yasin	„ Gakshi
Gishat	Kashmir	„ Jasat
Gobshi	Tibet	„ Gubshi and Gupshi
Goddumarri	Anantapur	„ Gulumarri
Godhna	Betul	„ Gondra
Gohri Ghat	Garhwal	„ Gauri Ghat
Golet R.	Adilabad	„ Guloti R.
Golgo	Hazaribagh	„ Gulgo
Golivopallo	Kistna	„ Golabapilli
Gorakghat (?)	Chhindwara	„ Gorah
Gorla Bodu	Cuddapah	„ Goralabodo
Gudali	Nellore	„ Gurullur
Gudipadu	Anantapur	„ Goodypaud
Guilong	Cachar	„ Quilong
Gul Dara Kotal	Afghanistan	„ Munar Kotal
Gulodgarh	Bijapur	„ Gooludegud
Gund-i-Khalil	Kashmir	„ Gondikallel
Gunge (?)	Karachi	„ Greibee
Gurha	Jaipur	„ Gudha
Guruzala	Guntur	„ Goorjal
Guvvalacheruvu	Cuddapah	„ Goolcheroo
Gwaila	Mandi	„ Maili
Habur	Jaisalmer	„ Abur
Hajo	Kamrup	„ Hazu
Hakkawn (?)	Mergui	„ Atong-wo
Halbarga	Bidar	„ Hulfergah
Haloagaon	Sibsagar	„ Halua
Hamyngyi	Tavoy	„ Hermingyi
Handawor	Kashmir	„ Handwara
Handwar	Jaipur	„ Anwar
Harnow R.	Hazara	„ Hertoh R.
Harpo La	Ladakh	„ Marpo La
Harsdiwaridhana	Chhindwara	„ Hasdiwari
Hasanamapetta	N. Arcot	„ Asnapetta

# LIST OF SYNONYMS.

Hasanpur	Palanpur	see Hossainpura and Hoshanpur
Hatona	Tonk	„ Hathuna
Hazbal	Kashmir	„ Hairbal
Heinze	Tavoy	„ Honzai
Hendeburu (?)	Singhbum	„ Jhanda Buru
Here	Belgaum	„ Hiri
Herkal	Bijapur	„ Yerkal
Hichan	Persia	„ Ichau
Hijili	Midnapore	„ Hidgellee
Hingni	Nander	„ Hinganoy
Hिताura	Nepal	„ Etoundah
Hkaachang	Myitkyina	„ Hkakou
Honkaram	Kurnool	„ Vankarum
Horial R.	Burdwan	„ Hural R.
Hoshalli	Raichur	„ Hosur
Hsamongkam	S. Shan States	„ Thamakan
Hsilkip	„ „	„ Thigyt
Hulni R.	Tehri	„ Hownulgur R.
Huppajudi	Trichinopoly	„ Ilpagoody
Huripur	Tippura	„ Horopur
Husuir	Palamau	„ Hosir
Hutap	Ranchi	„ Hutob
Idamakallu	Kurnool	„ Iddemkall
Ikkuru	Guntur	„ Yikuru
Imalia	Jubbulpore	„ Emelia
Imberzalwar	Kashmir	„ Imselwaru
Indisgore	Tumkur	„ Judes Geri
Inimerla	Nellore	„ Enemerla
Inungur	Trichinopoly	„ Encongoor
Ira	Garhwal	„ Era
Irungulur	Trichinopoly	„ Erungaloor
Ishwaramalai	Salem	„ Eashurmullay and Eswaramalai
Istach	Chitral	„ Stach
Itapora	Burdwan	„ Etiapura
Itaunda	Mewar	„ Etouda
Ivatokallu	Coorg	„ Watekolli
Iwulce	Bijapur	„ Aiholi
Jabbiwala	Punch	„ Jaba
Jagaldaga	Palamau	„ Jugguldugga
Jahaj	Jaipur	„ Jhaj
Jainu	Kohat	„ Zaino
Jairampur	Manbham	„ Jyramporo
Jaitoli	Almora	„ Chitaili and Chiteli
Jajad Gudda	Raichur	„ Iiadigudda and Jiadigudda



Jambadai	S. Arcot	see Jumbay
Jammalamadagu	Cuddapah	„ Jummulmudagoe
Jangri	Karachi	„ Gangri
Jaridih	Hazaribagh	„ Jercedooh
Jarnol	Cutch	„ Janor
Jaugaria	Mayurbhanj	„ Jamgodia
Jaura	Bhadravar	„ Joru
Javagondanhalli	Chitaldrug	„ Javanhalli
Javulagiri	Salem	„ Jaulikera
Jemari	Burdwan	„ Jamiari
Jemua	Bankura	„ Jamuan
Jercida	Singbhum	„ Jarida
Jestapilli	Warangal	„ Jastipalli
Jeur Ghat	Ahmadnagar	„ Secor Ghat
Jhabua	Bhopawar	„ Jabboah
Jhanjra	Burdwan	„ Janjura
Jhara	Jaipur	„ Jaharo
Jharnatoli	Hazaribagh	„ Jheerna
Jharot	Simla	„ Jandot
Jhelam	Garhwal	„ Bhap Kund
Jideda	Iraq	„ Judaidah
Jilbari	Santal Parganas	„ Gilhurria
Jodhawas	Alwar	„ Indawas and Judawas
Jokilpatti	Ramnad	„ Shoilputty
Jole Janaki	Burdwan	„ Jorjanki
Jonnalgadda	Kistna	„ Jennel Gudda
Jujjuru	„	„ Juzzer
Julgran	Hazara	„ Chulgram
Jungrai	Peshawar	„ Ingri
Junutula	Kurnool	„ Joonootla
Jutura	Anantapur	„ Jootoor
Kachaknur	Gulbarga	„ Kusukunahal
Kadur	Trichinopoly	„ Kaudoor
Kahi	Kohat	„ Kai
Kaipa	Banganapalle	„ Kypaw
Kaithi	Burdwan	„ Koithi
Kakadbit	Cutch	„ Kukkurbit and Kukurbit
Kakala Konda	Cuddapah	„ Kaukul Conda
Kalaid	Alwar	„ Kaler
Kalamgawan	Chanda	„ Karamgohan
Kalasapadu	Cuddapah	„ Kulsapaud
Kalat	Baluchistan	„ Kelat and Khelat
Kalatse	Ladakh	„ Khelchi
Kalava	Kurnool	„ Calwa
Kalehkyet	Bhamo	„ Ka-li-chet
Kalhel	Chamba	„ Kalail
Kaliyambakkam	Chittoor	„ Cullumbaucum

# LIST OF SYNONYMS.

Kallakkudi	Trichinopoly	see Cullygoody
Kalluppatti	"	" Culputty
Kalpadi	"	" Cullpaudy
Kalwan	Jaipur	" Karolian
Kambakkamdurgam	Chingleput	" Cambauk Droog and Kambak Droog
Kambalai	Salem	" Combaly
Kamrakhol	Bilaspur	" Gorakona
Kamsandra	Kolar	" Kamasamudram
Kamtha	Chhindwara	" Kartha
Kanaijona	Taleher	" Konjiri
Kandasara	"	" Kandusa
Kanjipadi	Chingleput	" Conjibuddy
Kannambakkam	"	" Cunnumbaucum
Kanniyai	Ceylon	" Kannea
Kanniyakovil	Pondicherry	" Koniakovil
Kapare	Hoshiarpur	" Keypar
Kaphaldanda	Nepal	" Katwaldar
Kar	Ladakh	" Salt Lake
Kara Tepe	Iraq	" Qarah Tappah
Karabad	Santal Parganas	" Khorabad
Karadichittur	S. Arcot	" Curdy Chittoor
Karadiputtur	Chingleput	" Caradepootoor
Karai	Trichinopoly	" Kari and Kauray
Karakod	Wynaad	" Carcoor
Karali hill	Chota Udaipur	" Matepenai and Metapennai- hill
Karambiyam	Trichinopoly	" Kurribiem
Karbudurum	Kashmir	" Karbodra
Karela	Jammu	" Krela
Karhayia	Narsinghpur	" Karcia and Karyia
Karind	Persia	" Kirrind
Karle	Kurandvad	" Kurleh
Karmahkari	Chhindwara	" Kurmakra
Karnikonda	Nellore	" Rodnikonda
Karodivadi	Bombay	" Kharodi
Karopani	Subbulpore	" Khuropani
Karshatal	Afghanistan	" Kardeathal
Karumalhi	Malabar	" Purrumolla Peak
Karundalakurichchi	S. Arcot	" Karolanda Kurchi
Karur	Trichinopoly	" Caroor
Kasat	Mergui	" Karzat and Kazat
Kashu Algod	Kohat	" Kurshru Algod
Kasi R.	Manbhum	" Chntkurree R.
Katapalli	Adilabad	" Katapur
Katkoian Pahar	Ranchi	" Burwa hill
Katol	Bashahr	" Kuar
Katri R.	Manbhum	" Kuttree R.

Kattuputtur	Trichinopoly	see Caudputtoor
Kaurik	Spiti	„ Kuri and Kurig
Kau-ngo	U. Chindwin	„ Khaung-ngo
Kavara Malai	Salem	„ Courmullay
Kaveripatanam	Tanjore	„ Cauverypatam
Kaverisamudram	Anantapur	„ Cauvaysamoodra
Kawadsi	Yeotmal	„ Kawarsa
Kawat	Nagpur	„ Kowtha
Kayar	Yeotmal	„ Khair
Kenchammana Gadi	Shimoga	„ Kanjiganagutti
Kenippattu	S. Arcot	„ Konipet
Ker Nambal	Punch	„ Nambal
Kosaphuli	Santal Parganas	„ Tesaphuli
Kosari	Surguja	„ Kisaree
Kewal	Jammu	„ Kiol
Khadir I.	Cutch	„ Kurreer I.
Khagna	Simla	„ Chugna
Khairagarh	Agra	„ Kheragur
Khalari	Ranchi	„ Kalari
Khari	Cutch	„ Kurray
Khariar	Orissa	„ Karial
Khatagaon	Indore	„ Kathargaon
Kherahitola	Palamau	„ Kurahi
Kherancha	Idar	„ Khercha
Khotar	Kashmir	„ Kaitbar
Khiad	Bijapur	„ Kaira
Khiram	Kashmir	„ Kirram
Khrenli	„	„ Khrew
Khudia R.	Manbhum	„ Khodo R.
Khur	Sirmur	„ Koad
Khurma Kur	Ladakh	„ Khar
Kibar	Spiti	„ Kibber
Kil Nattam	Trichinopoly	„ Keolanuttom
Kil Pulaiyur	„	„ Pulioor
Kinjirma	Gangpur	„ Kujerma
Kinlivli	Thana	„ Kinnowli
Kirakat	Benares	„ Krakhut
Kirambur	Salem	„ Keerumboor
Kirtaka	Chagai	„ Kartarkar
Kistavaram	Warangal	„ Krishnavaram
Klari	Malabar	„ Clary
Kodangipatti	Trichinopoly	„ Colingaputty
Koddamunai	Ceylon	„ Baticaloe
Kodeganuhan	Nagpur	„ Kodaigaon and Kodegaon
Koclao (?)	Hardoi	„ Kaeo
Koh-i-Daram	Makran	„ Koh-i-Dumak
Kokraha	Palamau	„ Thatha
Kol Horua	„	„ Kolherwan

# LIST OF SYNONYMS.

Kol R.	Manbhum	see Jhelia R.
Kollama Vagu	Kurnool	„ Kolumnullah
Kona Uppalapadu	Anantapur	„ Cona Oopalpad and Khona Oopalapad
Konbat	Bassein	„ Kweng-bo
Kondhala	Chanda	„ Kandara
Koneripatti	Trichinopoly	„ Cajareputty
Konra hill	Bankura	„ Kora and Koro hill
Koppedu	Chittoor	„ Cupedoo
Koppur	Chingleput	„ Coopoor
Koranjo (?)	Ranchi	„ Karanjia
Koratgi	Raichur	„ Karatugi
Korttalaiyar R.	Chingleput	„ Cortoliar R.
Kosainagaram	Chittoor	„ Naikenpolliam
Koshallia R.	Pinjaur	„ Kassaulia R.
Kotadi	Cutch	„ Kotree
Kotallum	S. Arcot	„ Agrarum Kotallum
Kottarakuppam	„	„ Yualakuppum
Kottukul	Travancore	„ Cotukall
Kotus	Kashmir	„ Kotsu
Kovakulam	Travancore	„ Cova Colum
Kowdalli	Coimbatore	„ Kavudahalli
Kowus	Kashmir	„ Kaosa
Kreinkreinmaw	Akyab	„ Krinkwaimau
Kuddam	Chhindwara	„ Kudum
Kudikkadu	Trichinopoly	„ Coodicaud and Cudicad
Kuh-i-Abarig	Persia	„ Abariq
Kuh-i-Bizak	„	„ Bizd hill
Kuh-i-Khamir	„	„ Dozgan Mts.
Kukon	Khasi Hills	„ Kokon
Kulesh	Hazara	„ Kulis
Kulikhani	Nepal	„ Tamba Khoneh
Kumayi	Darjeeling	„ Komai
Kumdabari	Mayurbhanj	„ Kamdabedi
Kumharsain	Simla	„ Komarsin
Kunamangalam	Trichinopoly	„ Kondamungaluni
Kunda La	Ladakh	„ Shingo Ja
Kundanakota	Anantapur	„ Coondanacota
Kunbpa	Toungoo	„ Koon-J'ai
Kunnam	S. Arcot	„ Cunum
Kunnam	Trichinopoly	„ Coonum
Kunnattur	S. Arcot	„ Cunatur
Kunwarpura	Bundi	„ Kuarpura
Kuragh	Chitral	„ Koragh
Kurchi (?)	Nagod	„ Kareia
Kuriani (?)	Cutch	„ Karreari
Kurichchukulam	Trichinopoly	„ Coorchycolum
Kurmed	Bhutan	„ Sasa

Kurunikkulattupatti	Trichinopoly	see Kurrinculputty
Kutbapur	Patiala	„ Kutbapur
Kutiparai	Ramnad	„ Kotaiparai
Kuttalam	Tinnevely	„ Kurtallum
Kuttanur	N. Arcot	„ Cutanur
Kuttarambakkam	Chingleput	„ Cotrumbaucum
Kwingauk	Bassein	„ Quenggouk
Kyaiktiyo	Thaton	„ Chaiteo
Kyelang	Lahul	„ Kailing
Kyengat	Wuntho	„ Kyatngat
Kyi-we	Boronga Is.	„ Khiweroa
Kywetalin	Myingyan	„ Kwatalin
Kywethe	Thayetmyo	„ Kwetha
Laitryngew	Khasi Hills	„ Lairangao
Lammidhan	Attock	„ Lambi-dand
Lamrapara	Drug	„ Lumna
Langaira	Chamba	„ Langera
Langkyrdem	Khasi Hills	„ Nongkredem and Nonkra- dem
Lanjikota	Kurnool	„ Lunjakola
Lankumalai	Cuddapah	„ Lunkamulla
Laogar Khel	Waziristan	„ Luargarkheyl
Las Bela	Baluchistan	„ Bela
Lawarai pass	Chitral	„ Laorai pass
Laxmipuram	Warangal	„ Letchmapur
Lebin (?)	Thayetmyo	„ Day-beng
Ledgadua	Chhindwara	„ Lahgarua
Legya	S. Shan States	„ Leggin
Lemeri	Garhwal	„ Limeri
Lotkat Taung	Amherst	„ Lekka Toung
Letmyaung	Thayetmyo	„ Laymyaung
Lewali	Jaipur	„ Lauuli
Lhelung	Hundes	„ Ilhelung
Lidarra	Jaisalmer	„ Lodowa
Liddarmar	Kashmir	„ Ludar Marg
Lidhora	Gwalior	„ Ladera
Lihindajan	Kashmir	„ Lehindajjar
Likha	Lakhimpur	„ Hilika
Lingamgunta Konda	Nellore	„ Peddakoo-hill
Lingapalem	„	„ Lingumpilly
Linje	Sikkim	„ Lingui
Lipa	Bashahr	„ Lepi
Lodu	Kashmir	„ Ludu
Lohun R.	„	„ Lahani R.
Loi Ma-che	Karenni	„ Mawohi
Loiyo	Hazaribagh	„ Layeo
Loiza	Rairakhol	„ Laija

# LIST OF SYNONYMS.

Lomka Soli	Turkestan	see Koh-i-Tan
Lon	Chitral	„ Lun
Lor	Kashmir	„ Lur
Lubudhiatola (?)	Hazaribagh	„ Lurgurtha
Luhohibad	Manbhum	„ Nuchibad
Lulung	Mayurbhanj	„ Nulungi
Lum Didom	Khasi Hills	„ Dedum hill
Lunda Maira ki Dhoken	Attock	„ Lundigar
Lungkam	Naga Hills	„ Nangkam
Lunku	Chitral	„ Londku
Lurehta	Narsinghpur	„ Loreta
Lyngdohmawdoh	Khasi Hills	„ Landomodo
Lyngkienkasmit	„ „	„ Lenkensmit
Madalpalli	Warangal	„ Mudlapad
Maddur	Mysore	„ Mudoor
Mae	Cutch	„ Mhow
Magyidaw	Ramri I.	„ Zidaw
Mahadevi	Trichinopoly	„ Mahdavy
Mahiya	Ladakh	„ Maya
Mahogala	Jammu	„ Mehowgala
Mahnadand	Palamau	„ Mhowadand
Mahudi hill	Hazaribagh	„ Mandih hill
Mahwar	Jodhpur	„ Mohabar
Maihar	Baghelkhand	„ Myher
Majal	Cutch	„ Nunjal
Majhgawan	Rewah	„ Majgama
Majri	Palamau	„ Manjuri
Makoli	Hazaribagh	„ Mukoollee
Malaita	Jhansi	„ Malehta
Malapuram	Kurnool	„ Mullapoor
Malegyi	Mandalay	„ Shwe Male
Maliara	Burdwan	„ Mulliahara
Maljipura	Rajpipla	„ Maldipoor
Mallareddikhandrika	Chittoor	„ Mullireddypolliam
Malliyakarai	S. Arcot	„ Mulliakerra
Mallur	Gulbarga	„ Malanur
Mallur	Trichinopoly	„ Mulloor
Malvai	„	„ Moulvoy
Mamandur	N. Arcot	„ Mamdur
Man Hkowng'	Bhamo	„ Mong-hkong-hka
Managedi	Trichinopoly	„ Munnygoody
Mandar	Jaipur	„ Kaiser
Mandasor	Gwalior	„ Mandseur and Mundesor
Mandawar	Alwar	„ Mandaor
Mandhan	Jaisalmer	„ Mandar
Mandhol	Dehra Dun	„ Mudhau
Mandiyur	S. Arcot	„ Moodoor

Mandua Pat	Ranchi	see Oronga hill
Manikandapuram	Trichinopoly	„ Munnicoondum Choultry
Mankuppai	Salem	„ Mannoopum
Manvi	Raichur	„ Bhanur
Manyatha	Wuntho	„ Mayutha
Maral	Palamau	„ Meral
Maranodai	S. Arcot	„ Marumvari
Marau R.	Kishtwar	„ Wardwan R.
Marble Is.	Mergui	„ Birds' Nest Is.
Mariani	Sibsagar	„ Moriani
Markasa	Khasi Hills	„ Mokersa
Marnoj	Jaipur	„ Mandnaoj
Marora	Garhwal	„ Marwara
Marri Gutta	Warangal	„ Kunnigiri hill
Marugutti	Kurnool	„ Margooty
Marweli	Adilabad	„ Maledi and Maleri
Masanpa	Mergui	„ Maha Champa
Mat Kund	D. G. Khan	„ Garmab
Matanomadh	Cutch	„ Madh and Mhurr
Matapodor	Jeypore	„ Modpodor
Mathurapur	Sibsagar	„ Matrapur
Matkuria	Manbhum	„ Mutkooree
Matsel	Kishtwar	„ Machel and Machial
Mau	Azamgarh	„ Mhow
Maw Ho-sang	N. Shan States	„ Mohochaung
Mawbeh	Khasi Hills	„ Maobolarkar and Mawbe lurkar
Mawhte	„Toungoo „	„ Kyoung Choung
Mawreng	Khasi Hills	„ Maoreng
Mawstoh	„ „	„ Maastoh
Mawthadraishan	„ „	„ Maunteriohan
Mawton	Mergui	„ Manton and Marton
Mayan Taung (?)	Amherst	„ „Toungwayn
Mayingyi	Mergui	„ Myengyee
Mekkipillaiyur	Salem	„ Meckalupoor
Mel Arasur	Trichinopoly	„ Malarasure
Mela	Kohat	„ Melukilla
Mettupalaiyam	Chingleput	„ Motapolliam
Mettupalaiyam	Trichinopoly	„ Polliam
Mettuppalaïyam	S. Arcot	„ Motepolliam
Mettuppatti	Salem	„ Maituputti
Miangun hill	Larkhana	„ Miagwan hill .
Midalam	Travancore	„ Madalam
Mikhola	Sikkim	„ Mik
Eingai n	Pakokku	„ Myin-ngan
Minyans in	S. Shan States	„ Min-ywa
Mirhara	Rewah	„ Minarra
Moar	Adilabad	„ Mohar

# LIST OF SYNONYMS.

Modikkadavu	Coimbatore	see Madikada
Mogal Gad	Belgaum	„ Manalgadda
Mogaluru	Nalgonda	„ Mugalur
Mohanpura	Alwar	„ Mahanpur
Mol-khun	Hunza	„ Murkhun
Monnyo	Sagaing	„ Minbo
Moravakonda	Kurnool	„ Mooraoonda
Mosur	N. Arcot	„ Moshoor
Mothoka	Patiala	„ Mokata and Motaka
Mothura	Ganjam	„ Mathura
Muddavaram	Kurnool	„ Maddawaram and Mood- waram
Mudenuru	Bellary	„ Mudanür
Mudun	Jammu	„ Marun
Muhawar hill	Hazaribagh	„ Mahabar hill
Mukkulan	Ramnad	„ Mudukan Kulam
Muko	Lakhimpur	„ Mokogson
Mukteswarapuram	Kistna	„ Moogetalah
Mullakurichchi	Trichinopoly	„ Mooticoorchy
Mulung	Naga Hills	„ Mon
Mungarkota	Sooni	„ Magarkatta
Mungi	Ahmednagar	„ Moonghee
Muni Malai	Salem	„ Moonimullay
Munimadagu	Kurnool	„ Moonimuddagoo
Murbad	Thana	„ Moorbar
Muria	Chhindwara	„ Murrye
Murtinayakampatti	Salem	„ Mootonaickenputty
Murulia	Manbhumi	„ Marulia
Murwai	Palamau	„ Morwaie
Musa-ka-Kotha	Garhwal	„ Dudatoli Mt.
Musulmari	Belgaum	„ Yellapur
Muttampatti	Trichinopoly	„ Mootum
Mutukula	Kurnool	„ Mootakoola
Myadardoki	Raichur	„ Meyrudodi
Myenettaung	Prome	„ Minet-toung
Myllem	Khasi Hills	„ Molim
Nabadwip	Bengal	„ Nadia and Nuddea
Nabhewala	Jaipur	„ Nabaro
Nabhoi	Cutch	„ Nambye
Nadiha	Manbhumi	„ Nodiha and Nudia
Nadimpalle	Kurnool	„ Neydopulla
Nadiyapur	Chhindwara	„ Nandia
Nadria	Rewah	„ Naoria
Nagaiyampatti	Salem	„ Nahempatti
Nagarimur Konda	Chittoor	„ Naggery Nose
Nagaur	Jodhpur	„ Nagore
Nagla Amarpur (?)	Aligarh	„ Ambapur Nagla



Nagnath	Garhwal	see Nagpur
Nahra	Simla	„ Nahera (N.)
Nah-sai	N. Shan States	„ Na-hsy
Nainar Malai	Salem	„ Neinalmullay
Naing R.	Larkhana	„ Naigh Nai
Nakian	Hoshiarpur	„ Naki
Nakus	Sibi	„ Nasik
Nallareddipalli	Nellore	„ Malareddipully
Nam Khom	S. Shan States	„ Nangon
Nammiyandal	S. Arcot	„ Nammianthal
Nampong	Singpho Hills	„ Nam Bong
Nandalur	Cuddapah	„ Nundaloor
Nandikotkur	Kurnool	„ Nundycoteoor
Nandup	Singhbhum	„ Landu
Nandyal	Kurnool	„ Nundial
Nandyalampeta	„	„ Nundialumpett
Nannai	Trichinopoly	„ Nunnay
Nanniyur	„	„ Ninnyoor
Nanthakyun	Kyaukpyu	„ Foul I.
Napoko	Toungoo	„ Mai-Pouk
Nara	Cutch	„ Nurra
Narasamuda	Burdwan	„ Nursumuda
Narayanavaram	Chittoor	„ Narnaveram
Naredi	Cutch	„ Nuriaree
Narji	Cuddapah	„ Nerjee
Narpura	Dholpur	„ Nurpur
Nathe	Thayetmyo	„ Ngathe
Navalgund	Dharwar	„ Naulgund
Navge	Belgaum	„ Nanga
Nayakaung	Katha	„ Nahakaung
Nayanipalle	Kurnool	„ Noyanpully
Nediyam	Chittoor	„ Neddiem
Nemam (?)	S. Arcot	„ Nemeli
Nera R.	Sirmur	„ Naira and Neweli R.
Nerabylu	Chittoor	„ Nerrabyly
Nerankimale	N. Kanara	„ Manavalike
Nerinjippadi	N. Arcot	„ Naringypaudy
Nesargi	Belgaum	„ Nelseri
Neyveli	Trichinopoly	„ Naivallie
Neyyamalai	Salem	„ Neighemullay
Ngathainggyaung	Bassein	„ Nga-theing-kyoung
Ngot-ko-Yagyi	S. Shan States	„ Ngu
Nilagar	Kashmir	„ Viligrar
Nimbal	Adilabad	„ Nambala
Nimpa	U. Chindwin	„ Limpa
Nimutola	Khairagarh	„ Nemaotola
Noagaon(?)	Kothi	„ Naigawa
Noapali	Sambalpur	„ Nawapali

# LIST OF SYNONYMS.

Nokphan	Naga Hills	see Naogaon
Nongkynrut	Khasi Hills	„ Kanrut
Nonia R.	Burdwan	„ Nunia R.
Nougata	Nimar	„ Nowahatta
Nuggihallibetta	Hassan	„ Taggadurbetta
Nundhatar	Cuteh	„ Noondatur
Nurpur Karmalia	Attock	„ Kummerallia
Nurpur Shahan	Rawalpindi	„ Shah-ki-Noorpoor
Nuzvid	Kistna	„ Nuzed
Nyaungbinchaing	Akyab	„ Mrungpara
Nyomda	Tibet	„ Namda
Nyu Chu	„	„ Neo Chu
Odaiyappatti	Trichinopoly	„ Udaiyappatti
Odappai	Chingleput	„ Odapei
Odiyam	Trichinopoly	„ Odium
Oghi	Hazara	„ Ughi
Olaippadi	Trichinopoly	„ Olapady
Olaiyampalaiyam	S. Arcot	„ Vellumpaleyam
Olamani	Belgaum	„ Walmanni
Olathang	Sikkim	„ Alukthang and Aulak- thang
Olavattur hill	Malabar	„ Wallaiur hill
Ona	Jaunsar	„ Anu
Onneywama	Pegu	„ Onhne
Orlakonda	Nalgonda	„ Uralagondah
Osaur	Coimbatore	• „ Hosur
Ottai	S. Arcot	„ Wattai
Ottappalam	Malabar	„ Watapalem
Paohhapur	Belgaum	„ Padshapur
Pa-chia (?)	Yunnan	„ Po-tchen
Pagalavadi	Trichinopoly	„ Puggalavandy
Pahapal	Yeotmal	„ Papur
Paheruwa	Jubbulpore	„ Peherna
Painthal	Jammu	„ Pantol
Paisuni R.	Banda	„ Pysunnee R.
Paitturmalai	Salem	„ Pythoormullay
Palaiyam	Trichinopoly	„ Polliam
Palanjur	Chingleput	„ Panjur
Palayanuru	Chittoor	„ Pyanoor
Palin	Cheduba I.	„ Pallang Roa
Palu	Amherst	„ Phalu
Pamakew	Khasi Hills	„ Pompsao
Pandalkudi	Ramnad	„ Pantalgudi
Pandaria	Jubbulpore	„ Pararia
Pandepur	Palamau	„ Panripura
Pang Hka	Myitkyina	„ Pangmaw
Pangmi	S. Shan States	„ Pinhmi

Pangtara	Shan States	see Pindaya
Paniem	Kurnool	„ Paneum
Pankma Hka	Myitkyina	„ Pangmamaw
Panniar	Gwalior	„ Puniar
Pano	Sibi	„ Panun
Panruti	S. Arcot	„ Panurutti and Panrutti
Pao-shan Hsien	Yunnan	„ Yung-Ch'ang Fu
Papaghi R.	Cuddapah	„ Paupugnee R.
Parad	Akola	„ Paruth
Parang R.	Spiti	„ Para R.
Parasia	Hazaribagh	„ Parseya
Paravay	Trichinopoly	„ Puravoy
Parola	Tehri	„ Porohla
Parukkaneheri	S. Arcot	„ Purkumchairy
Parur	„	„ Pulliyur
Parvad Ghat	Belgaum	„ Parwar Ghat
Pasar Malai	S. Arcot	„ Pausar hill
Pashada	Bashahr	„ Pishwara
Pasarabhiar	Hazaribagh	„ Passarabhia
Patharia	Saugor	„ Puturia
Patoli	Chamba	„ Butoli
Pattakudisal	Trichinopoly	„ Puttoocaintaincoodicaud
Pattalai	Coimbatore	„ Padiyur, Padyur and Pataly
Paturda	Buldana	„ Patulla
Paunda	Bashahr	„ Pawanda
Paunia	Balaghat	„ Ponia
Pavitttram	Trichinopoly	„ Powtrum
Pavugada	Tumkur	„ Pargarh
Payalur	Coimbatore	„ Bailur
Pedda Ahobilam	Kurnool	„ Howhoblum
Peddagumani Konda	„	„ Goomanconda
Peddapolamada	Anantapur	„ Palamodu and Polamuoda
Peddatekuru	Kurnool	„ Taykoor
Peganzit	Minbu	„ Pagansit
Pen	Kolaba	„ Panvel
Penbo Chu	Tibet	„ Pembu
Pentlavalli	Mabbubnagar	„ Penthully
Penugolanu	Kistna	„ Pengol
Periya Kudimadavu	Salem	„ Perryagoody Muddavoor
Periya Vadavadi	S. Arcot	„ Periya Wurrawuddy
Periyammappalaiyam	Trichinopoly	„ Permalpolliam
Periyavapanattam	Salem	„ Vapanuttom
Periyavenmani	Trichinopoly	„ Vemmany
Perumallapatti	Chingleput	„ Perumalpett
Perunali	Ramnad	„ Parnalli
Perundurai	Coimbatore	„ Peranturei and Perindore
Petikat	U. Chindwin	„ Pethet

# LIST OF SYNONYMS.

Petnikota	Kurnool	see Pellnyoota
Phager	Sirmur	„ Pagad
Phakekedzumi	Naga Hills	„ Phekrokejima
Phalan Chaung	Amherst	„ Thalan Kyoung
Phalastuni	Bundi	„ Plastuni
Phojal R.	Kulu	„ Fojal R.
Phrumbu	Kashmir	„ Prumu
Phulbadi	Puri	„ Phoolwari
Phulchauki Danda	Nepal	„ Phulchok
Phnare	Hazaribagh	„ Focaro
Pijdura	Chanda	„ Phisdura and Pisdura
Pillaiyarpatti	Tanjore	„ Pullayaputty
Pilod	Jaipur	„ Haripura
Pimpalkhota	Amraoti	„ Peepul Cottah
Pimplas	Thana	„ Periplas
Pirakarai Nadu	Salem	„ Perracurrah
Pirhapattoli	Ranohi	„ Pirapakna
Pirmed	Travancore	„ Parmand
Pokkon	Shwebo	„ Kokkon
Ponda	Jubbulpore	„ Ponri
Ponnai	N. Arcot	„ Poiney
Porikkal	„	„ Puragil
Porumamilla	Cuddapah	„ Porenaumla
Pote	Amherst	„ Pute
Powyea	Banda	„ Pavia
Poykkunam	S. Arcot	„ Pookanum
Premnarain Fort	Narsinghpur	„ Chaorigarh and Choari- gurrh
Puduppalaiyam	Trichinopoly	„ Poodoopolliam
Pudur	„	„ Poothoor
Puduvalavu	Salem	„ Pylum
Pulapundi	S. Arcot	„ Pallapoondae
Pul-i-Shalu	Persia	„ Godar bridge
Pulivendla	Cuddapah	„ Poolavaindla
Pullampet	„	„ Poolumpett
Punadi	Cutch	„ Punri
Punara	Belgaum	„ Pondra
Punmah glacier	Ladakh	„ Palma glacier
Puppala	Anantapur	„ Poopalla
Purdeha	Manbhum	„ Poordah and Purda
Puri	Orissa	„ Pooree
Purisai	N. Arcot	„ Poorsy
Purtala	Chhindwara	„ Pertnala
Purushottampur	Burdwan	„ Pusathanpur
Pusai R.	Manbhum	„ Pusai R.
Pusarippatti	Trichinopoly	„ Poojariputty
Puttur	„	„ Poodoor
Putturu	Chittoor	„ Pathur

Pyabondaung (?)	L. Chindwin	see Bondaung and Bondoung
Pyapalli	Kurnool	„ Paipully
Pyaung (?)	Thayetmyo	„ Phoungyi
Pyinma chaung	Bassein	„ Pyengma chaung
Pyinseikhe	Ramri I.	„ Palaingsake
Qasba Nagam	Kashmir	„ Nagam
Rachchandar Trumalai	Trichinopoly	„ Ramchunder Trimullay
Ragto	Singhbhum	„ Rogod
Rahari	Santal Parganas	„ Rohri
Rainka	Sirmur	„ Rurka
Rajan Kollur	Gulbarga	„ Bazuna Kolor
Rajankrishnapuram	Tinnevely	„ Russhun Kristnapur
Ralam	Almora	„ Rallum
Ram Hormuz	Persia	„ Ramuz
Ramavaram	Kurnool	„ Ramwarum
Ramghat R.	Palamau	„ Bisanpur R.
Raotmala	Merwara	„ Rawatmal
Ras Sharwain	Arabia	„ Ras Gharwen
Rasipur	Salem	„ Rajapooram
Ratanmal	Bhopawar	„ Ruttunmul
Ravigudem	Warangal	„ Raigudem and Ryagoo- dium
Ravirala	Kistna	„ Raveralah
Ravuthankuppam	S. Arcot	„ Rautankuppam
Rayachoti	Cuddapah	„ Rachotee
Rayalaohervu	Anantapur	„ Ryaloheroo
Rayanhala	Jaipur	„ Raialo
Rayeng	Darjeeling	„ Re Ung
Reddipalli	Cuddapah	„ Reddypully
Regula	Warangal	„ Ragundla
Rekho	Alwar	„ Rehi
Rekyun	Kyaukpyu	„ Flat I.
Rela Gadh	Almora	„ Raiala Gadh
Rera	Idar	„ Reda
Rewak	Garo Hills	„ Ryuk
Rham Tso	Tibet	„ Hram Tso
Rheowa range	Hazaribagh	„ Bheowa and Bhiaura range
Richara	Nagpur	„ Risara
Rin Nai	Kishtwar	„ Farriabadi R.
Ritpur	Amraoti	„ Reethpoor
Riwaa	Jaipur	„ Rewasa
Robat	Dir	„ Rabat
Robru	Stunla	„ Roru
Rojanitar	Manbhum	„ Ranatand
Ronke	Hazaribagh	„ Passaria

# LIST OF SYNONYMS.

Roni	Simla	see Rauni and Rani
Runang pass	Bashahr	„ Ruhang pass
Sach Khas	Chamba	„ Sauch
Sagauli	Champaran	„ Segowlie
Sagauna	Jubbulpore	„ Sagona
Sagodi	Damoh	„ Sagoni
Sagohat	Narsinghpur	„ Sagwan Ghat
Sahedba	Singhbhum	„ Saitba
Sahera (N.)	Cutch	„ Saira
Sahera (S.)	„	„ Sainra
Saho	Chamba	„ Sao
Sailan	Punch	„ Salian
Sailat	Mymensingh	„ Shythai
Sailung	U. Chindwin	„ Selon
Sainwala (?)	Sirmur	„ Silani
Sakarvayi	Adilabad	„ Sakaravoye
Sakh-i-Baranbal	Afghanistan	„ Shakh-i-Barant
Sakkottai	Ramnad	„ Shakkotai
Saluka	Bankura	„ Shalka
Samayapuram	Trichinopoly	„ Semiaveram
Samballi	Coimbatore	„ Sanpalli
Samda	Cutch	„ Sambera
Samdong	Sikkim	„ Momai
Samundri R.	Lakhimpur	„ Sundri R.
Sanamkawng	Putao	„ Salamkong
Sane	Ramri I.	„ Tsane
Sang Wang	Putao	„ Sheng Wang
Sangam	Chhindwara	„ Sugum
Sankarapuram	S. Arcot	„ Sangraveram
Sanr	Hazaribagh	„ Sand Kulan
Santai	Hoshangabad	„ Salei
Sanwans	Mianwali	„ Swas
Saradamangalam	Trichinopoly	„ Sordamungalum
Sarati	Kashmir	„ Sarpi Sangur
Sarbat	Las Bela	„ Karbat
Sareg	Chamba	„ Sraog
Sarodhara	Jaipur	„ Sialdro
Saroh	Jammu	„ Siro
Sarpatahi	Gorakhpur	„ Supuhee
Sarsod	Isagarh	„ Sirsaut
Sarthala	Jammu	„ Shartalla
Saruapani (N.)	Santal Parganas	„ Surwa
Saruapani (S.)	„	„ Sarwa
Sarubera	Hazaribagh	„ Suroobera
Sarvay	Salem	„ Sharvaye
Sarwa	Panna	„ Serwah
Satanikota	Kurnool	„ Shaitaneotta

Sativli	Thana	see Satiwali
Satpukhuria	Burdwan	„ Sath Pokaria
Sattarai	Chingleput	„ Settores
Sattur	Ramnad	„ Seitur
Satyavedu	Chingleput	„ Sattavodu
Savantvadi	Bombay	„ Sawunt Waree
Saya Kyum	Kyaukpyu	„ Jergo
Sedarappattu	Pondicherry	„ Saidarampet and Sydrapet
Seempathur	Manbhum	„ Sheodpur
Seftah	Persia	„ Sheftu
Seluai	Ranohi	„ Silwai
Semalya	Burdwan	„ Samla
Semarabera	Hazaribagh	„ Simrabera
Sendamangalam	Salem	„ Chaindamungalum
Sendarapatti	„	„ Chendarapatti
Sendpa	Bijawar	„ Syntpa
Sendurai	Trichinopoly	„ Sainthoray
Sengalattupaddi	Salem	„ Shenguttapaudy
Sengirai	Pudukkottai	„ Shenkarai
Sengottai	Tinnevely	„ Shengkotai
Senj R.	Simla	„ Nauti R.
Serka	Palamanu	„ Sirka
Sesoni	Hunza	„ Husaini
Sethama	Ramri I.	„ Tsetama
Shah Ghari	Chitral	„ Deh Shal
Sharaw Ga	Hukawng	„ Siraw
Sheokur	Jodhpur	„ Saokar
Sherghati	Gaya	„ Shorgotty
Shischen La	Ladakh	„ Saiji La
Shibpur	Burdwan	„ Sibpur
Shiparmatti	Bijapur	„ Chipurmatti
Shitalpur	Burdwan	„ Bitalpur
Shivpuri	Narwar	„ Sipri
Shogot	Chitral	„ Shogor
Shora	Rae Bareli	„ Sora
Shudo-Hkao	Myitkyina	„ Chuch-ho
Shujaatpur	Nander	„ Sedosphor
Shyamdi	Burdwan	„ Samdi
Shyampur	Manbhum	„ Sampur and Shampur
Shyamsandarpur	Bankura	„ Shamsunderpore
Siamri R.	Bijawar	„ Semri R.
Siarsol	Burdwan	„ Searsole and Sirsol
Silaundi	Jubbulpore	„ Silondi
Sillakkudi	Trichinopoly	„ Shillagoody
Simariya	Gwalior	„ Simiria
Simbleu	Chamba	„ Simliu
Sink	Persia	„ Sink
Simsanggi	Garo Hills	„ Shemsanggi

# LIST OF SYNONYMS.

Sinbok	Ramri I.	see Tainbok
Singasanipalli	Kurnool	„ Shingasanpully
Singiliyankomba	Salem	„ Shindalingy
Sinsek	Tavoy	„ Sinthe
Sin-tawng	S. Shan States	„ Hsin-Dawng
Sinzin	Myingyan	„ Sagyin
Siraru	Tehri	„ Shishalu
Sirili	Patiala	„ Saraili
Sirivole	Warangal	„ Surruwailu
Sirpur	Balaghat	„ Shergpur
Sirsanambedu	Chittoor	„ Tresulmare
Siruganur	Trichinopoly	„ Seraganoor
Sirukanbur	„	„ Sirgumpore
Sitakahabar	Santal Parganas	„ Seethacubber
Sitsayan	Thayetmyo	„ Sitsyahn
Sivnia	Banswara	„ Sivonia
Sogadora	Singhbhum	„ Sagad Buru
Sohmynting	Khasi Hills	„ Simunting
Sokarapalem	Vizagapatam	„ Chokkarapalem
Sokhniz	Kishtwar	„ Sukness
Somayajulapalle	Kurnool	„ Somadulpilly
Sonia	Khasi Hills	„ Sinya
Sonopeth	Ranchi	„ Sonapet
Sonrai	Jhansi	„ Sorai
Sottaiyampudur	Salem	„ Shattumboor
Sov	Kolaba	„ Savi
Sovinocheka	Naga Hills	„ Siwenuohika
Sriperumbudur	Chingleput	„ Sripermatur
Srisailam	Kurnool	„ Sreeshalum
Sugamadevibetta	Bellary	„ Copper Mt.
Sugur	Gulbarga	„ Saggur
Sumsam	Kishtwar	„ Soomjam and Sumjam
Sungri (?)	Jammu	„ Sang
Suipai	Hoshangabad	„ Soplye
Surajpura	Orehha	„ Khura
Suranga	Manbhum	„ Sooroonga
Surapur	Gulbarga	„ Shorapur and Sorapur
Surikapuram	Chittoor	„ Suroporam
Syahra	Gwalior	„ Siharo
Syndai	Jaintia Hills	„ Sandai
Tachchankurichchi	Trichinopoly	„ Thutchuncoorohy
Tachchur	N. Arcot	„ Tatchur and Thechur
Tadpatri	Anantapur	„ Taudapurtee
Tagwa (?)	Rewah	„ Fagwa
Talkkyun	Kyaukpyu	„ Round I.
Taklung	Tibet	„ Talung
Takpiu Wang	Puteo	„ Pyit Wang



Tal Birach	Alwar	see Talbrich
Talai	Salem	„ Thalli
Talamalai	„	„ Tullamulay
Talikkal	N. Arcot	„ Tallicalli
Talugai R.	Trichinopoly	„ Thalooghaynaur R.
Talur	„	„ Thaloor
Tamangarh	Karauli	„ Tewangarh
Tamoria R.	Hazaribagh	„ Tendwaha R.
Tanbesra	Kushalgarh	„ Tambesera
Tandakkavundapuram	Salem	„ Tandagoundenpollam
Tandavarayapuram	„	„ Thondaroyapuram
Tangmang	Khasi Hills	„ Sangmang
Tangon	U. Chindwin	„ Teingon
Tappay	Trichinopoly	„ Thapaye
Tatanagar	Singhbhum	„ Kalamati and Kalimati
Tatarpur	Alwar	„ Titherpur
Tatral	Jhelum	„ Tothral
Tattayangarpetta	Trichinopoly	„ Tathengarapaittai and Tathensarapetta
Taungni Taung	Cheduba I.	„ Pagoda hill
Tehri	United Provinces	„ Tiri
Tekorohatu	Singhbhum	„ Tekrasai
Teliapathar	Chhindwara	„ Teliadeo
Tellanillamala	Nellore	„ Tellanela-mulla
Temardoh	Nagpur	„ Taimurdoh
Tengkye	Tibet	„ Tinki
Tese-ru R.	Naga Hills	„ Tepe R.
Tevaiyur	Trichinopoly	„ Thavyur
Thagyot	Mergui	„ Tagit and Thakot
Thaing Chaung	Toungoo	„ Seing Chaung
Thaingohwein	Ramri I.	„ Theinchon
Thaman	Karauli	„ Thom
Thangana	Jhansi	„ Tingunnah
Thangnat	Khasi Hills	„ Thanjinath and Tung-ji- nath
Than-say	Yunnan	„ Mong-ta
Thapla	Hazara	„ Tapli
Thayur	Mysore	„ Tayur
Thatra	Alwar	„ Talra and Tatra.
Thel	Simla	„ Thail
Thepanyang	Thayetmyo	„ Lepangaing
Thigaung	S. Shan States	„ Thegon
Thihadaw	Shwebo	„ Thingadaw
Thogaduru	Mysore	„ Tagadur
Tichara	Amherst	„ Htichara
Tikri	Kulu	„ Tipri
Tinga	Beahahr	„ Tanga
Tiutar	Dehra Dun	„ Tiutar

## LIST OF SYNONYMS.

Tirampalaiyam	Trichinopoly	see Theerampolliam
Tirtha Malai	Salem	„ Teertamullay
Tiruchapur	Trichinopoly	„ Trichapoor
Tirumayam	Pudukkottai	„ Trimien
Tirupati	Chittoor	„ Tripetty
Tiruppachur	Chingleput	„ Tripassore
Tiruppanankadu	N. Arcot	„ Tripnagad
Tiruppangali	Trichinopoly	„ Tripunguly
Tiruppattur	„	„ Tripatoor
Tiruppayar	S. Arcot	„ Tirppeir
Tiruvallarai	Trichinopoly	„ Trevellary
Tiruvallur	Chingleput	„ Trivellore
Tiruvananallur	S. Arcot	„ Tirnavalour
Tiruvendipuram	„	„ Trivandipuram
Tithal	Surat	„ Teetul
Tiur Pahar	Santal Parganas	„ Turi Pahar
Tiwablaw	Amherst	„ Htiwapalaw
Tobra	Jhelum	„ Tobar
Toll	S. Arcot	„ Tolum
Toltukki	Salem	„ Taultooky
Tong	Sikkim	„ Tung
Tongi	Hazaribagh	„ Tungi
Toraiyur	N. Arcot	„ Tarur
Tosham	Hissar	„ Tusham
Totaravulapadu	Kistna	„ Thoralapadu
Tottiyam	Trichinopoly	„ Totium
Trahagam	Kashmir	„ Trigamma
Traksang	Tibet	„ Tatsang
Tramau	Cutch	„ Trummo
Trambau	„	„ Thrombow, Toombo and Trombow.
Tsandarmarg	Kashmir	„ Tangamarg
Tsapri	Peshawar	„ Supri
Tsautapalem (N.)	Nellore	„ Soutapalem
Tsautapalem (S.)	„	„ Chautapalem
Tsokr Chunse	Ladakh	„ Freshwater lake
Tsomo Tretung	Tibet	„ Tso Modretung
Tubed	Palamau	„ Toobed
Tulaiyanattam	Trichinopoly	„ Tholya-nuttum
Tummurukota	Guntur	„ Timmeryoota
Tunakonda	Cuddapah	„ Toonocconda
Turaimangalam	Trichinopoly	„ Torramangalam
Turaiyur	„	„ Torlore
Tuttippattu	Pondicherry	„ Tutipet
Tuttiwe	Mergui	„ To Twe
Tuvagudi	Trichinopoly	„ Thoonagoody
Tyagadurgam	S. Arcot	„ Tlagar Droog

Tyaranduru	Shimoga	see Tirandur
Tyrngai (?)	Khasi Hills	„ Tyrna
Udayapur	Gwalior	„ Udepur
Ugardi	Cutch	„ Oogulree
Ujhari	Muzaffarpur	„ Andhara
Ukam	Mayurbhanj	„ Okampad
Ukkalur	Trichinopoly	„ Oogalore
Ulindakonda	Kurnool	„ Wulandikonda
Uluvur	Tanjore	„ Ulur
Umaiypuram	N. Arcot	„ Umiaveram
Umarpani	Narsinghpur	„ Omarpani
Umia	Cutch	„ Oomia
Umiew R.	Khasi Hills	„ Boga Pani
Umlein	„ „	„ Wahnlein
Ummudisanpatti	Ramnad	„ Ammersenpatti
Umniah	Khasi Hills	„ Umia
Umwai (?)	„ „	„ Amwi
Unabdev	E. Khandesh	„ Arawad
Undh (?)	Larkhana	„ Wahi Pundi
Uppalapadu	Kurnool	„ Oopalpad
Urachintala	Anantapur	„ Oorchintala
Uraf	Persia	„ Ulagchi
Urangani	S. Arcot	„ Veraunganney
Urwas	Mewar	„ Unwa
Usked	Surat	„ Ooskir
Ustapalle	Warangal	„ Oostapully
Utila	Gwalior	„ Ootilla
Utri	Sirmur	„ Othri
Vada Ponparappi	S. Arcot	„ Pompurapy
Vadakal	Chingleput	„ Vadugal
Vaddirala	Cuddapah	„ Wuddyralla
Vadgam	Rajpipla	„ Wurgam
Vadugarpettai	Trichinopoly	„ Vadoogapaitty
Vagalkhod	Rajpipla	„ Waghulkhore
Vaki	Kolhapur	„ Waki
Valappadi	S. Arcot	„ Walapandy
Valavandinadu	Salem	„ Vaulavaudy
Valavetti	N. Arcot	„ Walliputty
Valia	Rajpipla	„ Whaliat
Valikandapuram	Trichinopoly	„ Volcondah
Vallafgad	Belgaum	„ Wallabgarh
Vallakottai	Chingleput	„ Vellakotta
Vallam	„	„ Vellum
Vami-Konda	Kurnool	„ Waumyconda
Vanipenta	Cuddapah	„ Wonypenta
Vanivalasa Sagara	Chitaldrug	„ Marikanave
Vanjivanjeri	Chingleput	„ Vanjeri

# LIST OF SYNONYMS.

Vantmari	Belgaum	see Wantmari
Vanur	"	" Wannur
Varaguppadi	Trichinopoly	" Varagapaudy
Varagur	"	" Veraghoor
Varakuppai	"	" Veraicoopay
Varakur Malai	N. Arcot	" Warrioor hill
Varar hill	Cutch	" Wurrar hill
Varchgal	Mudhol	" Warratsgal
Varkkallai	Travancore	" Vorkully and Warkalli
Vatangi	Belgaum	" Watangi
Vathod	Amraoti	" Buttoda
Vatlabayalu	Nellore	" Gotlabailu
Vattaluru	Cuddapah	" Wattaloor
Vayalappadi	Trichinopoly	" Vylapaudy
Vayalur	S. Arcot	" Velur
Voldurti	Kurnool	" Yeldoorly
Velikonda range	"	" Yellaconda range
Vemkal	Mahbubnagar	" Yemkulloo
Vempalle	Cuddapah	" Vaimpully
Vengapadu	Kurnool	" Vungapaud
Veppur	Trichinopoly	" Vapoor
Vethon hill	Cutch	" Vitonia hill
Vettavalam	N. Arcot	" Vaturvallum
Viphoma	Naga Hills	" Biphuma
Virabhadradurgam	Kurnool	" Verabudr Droog
Viranna Konda	"	" Byrenconda
Virapalle	Cuddapah	" Veerapully
Virapandi	Coimbatore	" Virapaneli
Virkhandi	Nagpur	" Viakhandi
Viruru	Nellore	" Irur
Vishan-Sar	Kashmir	" Kishan-Sar
Vishar	Chingleput	" Vizier
Voglli	Nellore	" Ogili
Vorupallirachapalem	"	" Ruzulapad
Vriddhachalam	S. Arcot	" Verdachellum
Vutukuru	Nellore	" Yatoor
Wadholi	Chanda	" Wurolee
Wagh R.	Amjhera	" Baghnee R.
Walgaon	Amraoti	" Bulgaon
Walka	Cutch	" Malka
Wan Namon	Karenni	" Namon
Wanik Kuss	Shahpur	" Warru Kuss
Wankarind	Kashmir	" Wankringi
Warala	Jhelum	" Vadala
Warkup	Chitral	" Werkap
Watakul	Ladakh	" Waturgu
Wayul	Kashmir	" Wyl

Wirai	Adilabad	see Irai
Wodsinga	Athmallik	„ Deoljhari
Wolagers	Mysore	„ Holgere
Wunywa	Minbu	„ Won
Wuyan	Kashmir	„ Weean and Wian
Yadiki	Anantapur	„ Yadakee
Yalur	Belgaum	„ Yellurgarh
Yamanpalli	Adilabad	„ Yemlapalli
Yanngwa	Mergui	„ Yaungwa
Yanthitshe	Ramri I.	„ Yanthek
Yaranhatti	Belgaum	„ Urauhatti
Yarrapalli	Nellore	„ Yerraballe
Yebusan	Tavoy	„ Nat-Gyi-Zin
Yedulwada	Adilabad	„ Idlara
Yel	Kashmir	„ Ail
Yelambalur	Trichinopoly	„ Ellumbaloor
Yelavare	Hassan	„ Tellavari
Yeyunbyit	Katha	„ Yuyinbyet
Yindung	Yunnan	„ Ponsee
Yurod	Kishtwar	„ Maru
Yus Maidan	Kashmir	„ Eosu
Zaingchaung	Ramri I.	„ Saingchon
Zangamrajapalle	Cuddapah	„ Jungumrajpilly
Zawe	Mergui	„ Zoe
Zeori	Bashahr	„ Jaori
Zhakama	Naga Hills	„ Jakhama
Zhopu	Chitral	„ Jhopu
Zinda Pir	D. G. Khan	„ Bindar Pir
Zoboshishe pass	Ladakh	„ Jubbursessa pass

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*Part 3 (out of print).*—Microscopic structure of some Dalhousie rocks. Lavas of Aden. Probable occurrence of Siwalik strata in China and Japan. Mastodon angustidens in India. Traverse between Almora and Mussoorree. Cretaceous coal-measures at Borsora in Khasi Hills, near Laour in Sylhet.

**Part 4 (out of print).**—Palaeontological notes from Daltonganj and Hutar coal-fields in Chota Nagpur. Altered basalts of Dalhousie region in North-Western Himalayas. Microscopic structure of some Sub-Himalayan rocks of tertiary age. Geology of Jaunsar and Lower Himalayas. Traverse through Eastern Khasia, Jaintia, and North Cachar Hills. Native lead from Maulmain and chromite from the Andaman Islands. Fiery eruption from one of the mud volcanoes of Cheduba Island, Arakan. Irrigation from wells in North-Western Provinces and Oudh.

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- Part 3 (out of print).**—Microscopic structure of some Aravali rocks. Section along Indus from Peshawar Valley to Salt-range. Sites for boring in Raigarh-Hingir coal-field (first notice). Lignite near Raipore, Central Provinces. Turquoise mines of Nishāpūr, Khorassan. Fiery eruption from Mynbyin mud volcano of Cheduba Island, Arakan. Langrin coal-field, South-West Khasia Hills. Umaria coal-field.
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- Part 2 (out of print).**—Fossiliferous series in Lower Himalaya, Garhwal. Age of Mandhali series in Lower Himalaya. Siwalik camel (*Camelus Antiquus*, nobis ex Falc. and Caut. MS.). Geology of Chamba. Probability of obtaining water by means of artesian wells in plains of Upper India. Artesian sources in plains of Upper India. Geology of Aka Hills. Alleged tendency of Arakan mud volcanoes to burst into eruption most frequently during rains. Analyses of phosphatic nodules and rock from Mussoorree.
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- Part 2 (out of print).**—Geology of parts of Bellary and Anantapur districts. Geology of Upper Dehing basin in Singpho Hills. Microscopic characters of eruption rocks from Central Himalayas. Mammalia of Karnul Caves. Prospects of finding coal in Western Rajputana. Olive group of Salt-range. Boulder-beds of Salt-range. Gondwana Homotaxis.
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- Part 2 (out of print).*—Fossil vertebrata of India. Echinoidea of cretaceous series of Lower Narbada Valley. Field-notes: No. 5—to accompany geological sketch map of Afghanistan and North-Eastern Khorassan. Microscopic structure of Rajmahal and Deccan traps. Dolerite of Chor. Identity of Olive series in east, with speckled sandstone in west, of Salt-range, in Punjab.
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- Part 4 (out of print).*—Points in Himalayan geology. Crystalline and metamorphic rocks of Lower Himalaya, Garhwal, and Kumaun, Section II. Iron industry of western portion of Raipur. Notes on Upper Burma. Boring exploration in Chhattisgarh coal-field (Second notice). Pressure Metamorphism, with reference to foliation of Himalayan Gneissose Granite. Papers on Himalayan Geology and Microscopic Petrology.

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- Part 2 (out of print).*—Award of Wollaston Gold Medal, Geological Society of London, 1888. Dharwar System in South India. Igneous rocks of Raipur and Balaghata, Central Provinces. Sangar Marg and Mehowgale coal-fields, Kashmir.
- Part 3 (out of print).*—Manganese Iron and Manganese Ores of Jabalpur. 'The Carboniferous Glacial Period.' Pre-tertiary sedimentary formations of Simla region of Lower Himalayas.
- Part 4 (out of print).*—Indian fossil vertebrates. Geology of North-West Himalayas. Blown-sand rock sculpture. Nummulites in Zanskar. Mica traps from Barakar and Raniganj.

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- Part 4 (out of print).*—Land-tortoises of Siwaliks. Pelvis of a ruminant from Siwaliks. Assays from Sambhar Salt-Lake in Rajputana. Manganiferous iron and Manganese Ores of Jabalpur. Palagonite-bearing traps of Rajmahal hills and Deccan. Tin-smelting in Malay Peninsula. Provincial Index of Local Distribution of Important Minerals, Miscellaneous Minerals, Gem Stones and Quarry Stones in Indian Empire: Part 1.

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- Part 2 (out of print).*—Cretaceous Rocks of Southern India and geographical conditions during later cretaceous times. Experimental Boring for Petroleum at Sukkur from October 1893 to March 1895. Tertiary system in Burma.
- Part 3 (out of print).*—Jadeite and other rocks, from Tammaw in Upper Burma. Geology of Tochi Valley. Lower Gondwanas in Argentina.
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- Part 2.*—Cretaceous Deposits of Pondicherry. Notes.
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- Part 2 (out of print).*—Mineral Production of India during 1912. Relationship of the Himalaya to the Indo-Gargetic Plain and the Indian Peninsula. Hambergite from Kashmir.
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VOL. XLVI, 1915.

Quinquennial Review of Mineral Production of India for 1909 to 1913 (*out of print*).

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- Part 1.*—General Report for 1916. A revised classification of the Gondwana System.
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- Part 1.*—General Report for 1917. Cassiterite Deposits of Tavoy. Les Echinides des "Bagh Beds".
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VOL. LIII, 1921.

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**Part 1.**—General Report for 1921. Contributions to the Geology of the Province of Yunnan in Western China: VI.—Traverses between Tali Fu and Yunnan Fu. Geology of Takki Zam Valley, and Kaniguram-Makin Area, Waziristan. Geology of Thayetmyo and neighbourhood, including Padaukbin. Bitumen in Bombay Island.

**Part 2.**—Mineral Production of India during 1921. Iron Ores of Singhbhum and Orissa. Geological Results of Mount Everest Reconnaissance Expedition. Northern Extension of Wolfram-bearing Zone in Burma. Miscellaneous Note.

**Part 3.**—Obituary: Rupert William Palmer. Indian Tertiary Gastropoda. IV.—Olividæ, Harpidæ, Marginolidæ, Volutidæ and Mitridæ, with comparative diagnoses of new species. Structure of Cuticle in *Glossopteris angustifolia* Brongn. Revision of some Fossil Baianomorph Barnacles from India and the East Indian Archipelago. Contributions to the Geology of the Province of Yunnan in Western China: 7.—Reconnaissance Surveys between Shunning Fu, Chingtung Ting and Tali Fu. 8.—Traverse down Yang-tze-chiang Valley from Chin-chaing-kai to Hui-li-Chou. Boulder Beds beneath Utatur State, Trichinopoly District. Miscellaneous Notes.

**Part 4.**—Geology of Western Jaipur. Geological Traverses from Assam to Myitkyina, through Hukong Valley; Myitkyina to Northern Putao; and Myitkyina to Chinese Frontier. Oligocene Echinoidæ collected by Rao Bahadur S. Sethu Rama Rao in Burma. Mineral Resources of Kolhapur State. Kungka and Manmaklang Iron Ore Deposits, Northern Shan States, Burma.

VOL. LV, 1923-24.

- Part 1.*—General Report for 1922. Indian Tertiary Gastropoda, No. 5, Fusidae, Turbinellidae, Chrysodomidae, Strepturidae, Buccinidae, Nassidae, Columbidae, with short diagnoses of new species. Geological Interpretation of some Recent Geodetic Investigations (being a second Appendix to the Memoir on the structure of the Himalayas and of the Gangetic Plain as elucidated by Geodetic Observations in India).
- Part 2.*—Obituary: Ernest (Watson) Vredenburg. Fossil Molluscs from Oil-Measures of Dawns Hills, Tenasserim. Armoured Dinosaur from Lameta Beds of Jabulpore. Fossil forms of *Placuna*. Phylogeny of some Turbinellidae. Recent Falls of Aerolites in India. Geology of part of Khasi and Jaintia Hills, Assam.
- Part 3.*—Mineral Production of India during 1922. Lignitic Coal-fields in Karewa formation of Kashmir Valley. Basic and Ultra-Basic Members of the Charnockite Series in the Central Provinces. China Clay of Karalgi, Khanapur, Belgaum District.
- Part 4.*—Obituary: Henry Hubert Hayden. Oil Shales of Eastern Amherst, Burma, with a Sketch of Geology of Neighbourhood. Provisional list of Palaeozoic and Mesozoic Fossils collected by Dr. Coggin Brown in Yunnan. Fall of three Meteoric Irons in Rajputana on 20th May 1921. Miscellaneous Note.

VOL. LVI, 1924-25.

- Part 1.*—General Report for 1923. Mineral Deposits of Burma.
- Part 2.*—Mineral Production of India during 1923. Soda rocks of Rajputana.
- Part 3.*—Gyrolite and Okenite from Bombay. Freshwater Fish from oil-measures of Dawns Hills. Fossil Ampullariid from Poonch, Kashmir. Calcareous Alga belonging to Triploporella (Dasycladaceæ) from Tertiary of India. Froth Flotation of Indian Coals. Submarine Mud Eruptions off Arakan Coast, Burma. Cretaceous Fossils from Afghanistan and Khorasan.
- Part 4.*—Merua Meteorite. Stegodon Ganesa in Outer Siwaliks of Jammu. Land and Freshwater Fossil Molluscs from Karewas of Kashmir. Burmese Lignites from Namma, Lashio and Pauk. Maurypur Salt Works.

VOL. LVII, 1925.

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VOL. LVIII, 1925-26.

- Part 1.*—General Report for 1924. Fossil Tree in Panchet Series of Lower Gondwanas near Asansol, with Palaeontological Description.
- Part 2.*—Obituary: Francis William Walker. Possibilities of finding concealed coal-field at a workable depth in Bombay Presidency. Basaltic Lavas penetrated by deep boring for coal at Bhusawal, Bombay Presidency.
- Part 3.*—Mineral Production of India during 1924. Enstatite-Augite Series of Pyromenes. Constitution of the Glauconite and Celadonite. Palagonite-bearing Dolorite from Nagpur.
- Part 4.*—Fossiles Crétacés de l'Afghanistan. Fossiles du Kashmir et des Pamirs. Additions and Corrections to Vredenburg's Classification of the Cypræidae. Petrology of Rocks from Girnar and Osham Hills, Kathiawar, India.

VOL. LIX, 1926.

- Part 1.*—General Report for 1925. Foraminifera of parts of Western India.
- Part 2.*—Sampling Operations in Panch Valley Coal-field. Composition of some Indian Garnets. Geology of Andaman and Nicobar Islands, with special reference to Middle Andaman Island. Occurrence of Cryptohalite. Remarks on Carter's Genus *Conulites*.
- Part 3.*—Mineral Production of India during 1925. Metamorphic Rocks and Intrusive Granite of Chhota Udepur State. Indian Species of *Conoclypus*.
- Part 4.*—Low-Phosphorus Coking Coal in Giridih Coal-field. Distribution of Gault in India. Age of so-called Danian Fauna from Tibet. Bauxite on Korlapat Hill, Kalkhandi State, Bihar and Orissa.

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- Part 1.*—General Report for 1926. Six Recent Indian Aerolites.
- Part 2.*—Gas Eruption on Ramri Island, off Aracan Coast of Burma, in July, 1926. Oil Indications at Drigh Road near Karachi. Lower Canine of *Totracodon*. Geology of Bundi State, Rajputana.
- Part 3.*—Mineral Production of India during 1926. Geological Traverse in Yunaslin Valley. Ambala Boring of 1926-27. Indian Unionidae.
- Part 4.*—Relationship between Specific Gravity and Ash Contents of Coals of Korea and Bokaro Coals as Colloid Systems. Contact of Basalt with coal seam in the Isle of Skye, Scotland. Comparison with Indian examples. Barakar-Ironstone Boundary near Begunia, Raniganj Coal-field. Raniganj-Panchet Boundary near Asansol, Raniganj Coal-field. Permo-Carboniferous Marine Fauna from Umaria Coal-field. Geology of Umaria Coal-field, Rewah State, Central India. Composition and Nomenclature of Chlorophæite and Palagonite, and on Chlorophæite Series. Miscellaneous Notes.



- Part 1.—General Report for 1927. *Actinodon fragilis* in Lower Gondwana of Vindhya, Kashmir. Miscellaneous Note: Further Note on Nomenclature of Molluscs.
- Part 2.—Contribution to Geology of Punjab Salt Range. Iron Ore Deposits of Northern Shan States. Lower Canine of Indian Species of *Conchyna*. Miscellaneous Note: Leucopyrite from Kodarma.
- Part 3.—Mineral Production of India during 1927. Note on Coking Tests with Gondwana Coals. Zinc-Spinel from Southern India. New Indian Meteorite: Luna Fall. Miscellaneous Note: Löllingite from Hazaribagh District.
- Part 4.—Erratics of the Punjab. Cretaceous Dinosaurs of Trichinopoly District, and Rocks associated with them. Orbitoline from Tibet. Joya Mair Domo Fold, near Chakwal, Jhelum District, Punjab. Occurrence of Allophane at Tikak, Assam. Miscellaneous Note: Australian Species of Genus *Gisortia*.

VOL. LXII, 1929-30.

- Part 1.—General Report for 1928. Miscellaneous Note: New Chromite Localities.
- Part 2.—Obituary: Sivarani Sethu Rama Rau. Specific Gravity and Proximate Composition of Indian Vitamins. New Devonian Fossils from Burma. Rangoon Earthquakes of September and December 1927. Epicentre of North-West Himalayan Earthquake of 1st February 1929. Miscellaneous Notes: Indian Beryl, Atacamite in Bihar and Pyromorphite in Bhagalpur district, Bihar.
- Part 3.—Mineral Production of India during 1928. Granophyric Trachyte from Salsette Island, Bombay. Coal Resources of the Jharia Coal-field. Coal lost by Fires and Collapses in Indian Coal Mines.
- Part 4.—Age of Aravalli Range. Lake's Rule for angle of Overthrust, as applied to Himalayas. Permo-Carboniferous Succession in Warcha Valley, Western Salt Range, Punjab. Naoki (Hyderabad) Meteoric Shower of 29th September 1928. Miscellaneous Notes: Boring for water at Daryapur and Fossil Eggs at Yonangyang.

VOL. LXIII, 1930.

- Part 1.—General Report for 1929. Upper Triassic Fossils from Burmo-Siamese Frontier.—Thaungyin Trias and Description of Corals. Upper Triassic Fossils from Burmo-Siamese Frontier.—Brachiopoda and Lamellibranchia from Thaungyin River. Upper Triassic Fossils from Burmo-Siamese Frontier.—Fossils from Kamawkala Limestone. Upper Triassic Fossils from Burmo-Siamese Frontier.—New *Dasycladacea*. *Holosporella siamensis* nov. gen., nov. sp., with Description of Allied Genus *Aciculella* Pils. Cretaceous Cephalopods in 'Red Beds' of Kalaw, Southern Shan States, Burma.
- Part 2.—Methods of Analysis of Coal used at Government Test House, Adipore, Calcutta, with an Editorial Introduction. New fossil localities within Panchet series of Raniganj Coal-field. Species of *Cyrtina* from Pegu Beds of Burma. Two new species of *Unio*. Glaciers of Karakoram and Neighbourhood. Miscellaneous Note: Dome near Mari in Attock District.
- Part 3.—Mineral Production of India during 1929. On the Specific Gravity and Proximate Composition of some Indian Durains.
- Part 4.—Aspects of Modern Oil Field Practice. Undescribed freshwater Molluscs from various parts of India and Burma. Second note on North-West Himalayan Earthquake of 1st February, 1929. Miscellaneous Notes: Tremolite from near Jasidih, Bihar, Sapphirine in Vizagapatam District and Titaniferous Augite from Chandrawati, Sirohi State, Rajputana.

VOL. LXIV, 1930.

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VOL. LXV, 1931-32.

- Part 1.—General Report for 1930. Additional Note on Samolia Meteorite. Zoning and Differences in Composition of Twinned Plagioclase Felspars in certain rocks from Sirohi State, Rajputana. Albite-Ala B Twinning of Plagioclase Felspars in certain acidic rocks from Sirohi State, Rajputana. Jurassic Fossils from Northern Shan States.
- Part 2.—Syntaxis of North-West Himalayas: Its Rocks, Tectonics and Orography. Preliminary Note on Pegu Earthquake of May 5th, 1930. Determination from World Records of Zero-time and Epicentre of Pegu Earthquake of May 5th, 1930. Long Distance Wave Speeds of Pegu Earthquake of May 5th, 1930. Rocks bearing Kyanite and Sillimanite in Bhandara District, C.P. Stratigraphy of Upper Ranikot Series (Lower Eocene) of Sind, India. Miscellaneous Note: Fuchsite Vase from Mohenjo Daro (Sind).
- Part 3.—Mineral Production of India during 1930. Geology and Lead-ore Deposits of Mawson, Federated Shan States. Weathering of Vindhyan Building Stone. *Maclurites* from Ordovician of Burma. Miscellaneous Notes: Supplementary note on "Revisions of Indian Fossil Plants, Part II Coniferales (b. Petrifications), 1931" and Eruption of Mud Volcano off Anakan Coast.









